```
=> fil reg; d que 18
FILE 'REGISTRY' ENTERED AT 16:45:14 ON 23 DEC 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.
                                        HIGHEST RN 802006-11-7
STRUCTURE FILE UPDATES:
                          22 DEC 2004
                          22 DEC 2004
                                       HIGHEST RN 802006-11-7
DICTIONARY FILE UPDATES:
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004
  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.
Crossover limits have been increased. See HELP CROSSOVER for details.
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html
             84 SEA FILE=REGISTRY ABB=ON HADGSFSDEMNT[MLIVC]LD[ASTPGNDEQ]LA[AS
L4
                TPG] [HR] DFINWL [MLIVC] [NDEQHRK] TKITD/SQSP
             39 SEA FILE=REGISTRY ABB=ON L4 AND 33-37/SQL ·
              9 SEA FILE=REGISTRY ABB=ON HADGSFSDEMNTILDNLAARDFINWLIQTKITDR^/S
L7
                                                            This query cores Segl or Seg 2
1.8
             35 SEA FILE=REGISTRY ABB=ON L5 NOT L7
=> d rn cn kwic nte lc 18 1-35
     ANSWER 1 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
1.8
     768850-15-3 REGISTRY Use Registry # to match citation to sequence Certations
L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
RN
CN
     phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-\alpha-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
     lysyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
     20: PN: WO2004085471 PAGE: 59 claimed sequence
CN
     56: PN: WO2004085471 PAGE: 59 claimed protein
CN
SQL
    33
  5QL = sequence length
         1 HADGSFSDEM NTILDNLAAR DFINWLIKTK ITD
SEQ
           HITS AT:
           1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
LC
     STN Files:
                 CA, CAPLUS
     ANSWER 2 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
RN
     741700-41-4 REGISTRY
     L-Aspartic acid, L-histidyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-L-
CN
     phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-\alpha-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-
```

```
N6-[N-(1-oxohexadecyl)-β-alanyl]-L-lysyl-L-threonyl-L-lysyl-L-
    isoleucyl-L-threonyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN
    108: PN: WO2004069314 PAGE: 24 claimed protein
SQL 34,33,1
SEQ
        1 HADGSFSDEM NTILDNLAAR DFINWLIKTK ITD
          HITS AT:
         1 - 33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE multichain
    modified (modifications unspecified)
----- location ----- description
bridge Lys-28 - Bal-1' amide bridge uncommon Bal-1' - -
______
    STN Files: CA, CAPLUS, USPATFULL
LC
    ANSWER 3 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
    688377-37-9 REGISTRY
RN
CN
    L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
    phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
    NAME)
OTHER NAMES:
CN
    3: PN: US20040092432 TABLE: 1 unclaimed sequence
SQL 33
SEQ
        1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
         ________________________________
HITS AT:
         1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
    STN Files: CA, CAPLUS, USPATFULL
1.8
    ANSWER 4 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
    683751-57-7 REGISTRY
RN
    L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
CN
    phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-
    N6-[N-(1-oxohexadecyl)-\beta-alanyl]-L-lysyl-L-threonyl-L-lysyl-L-
    isoleucyl-L-threonyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
    106: PN: WO2004035624 PAGE: 176 claimed sequence
CN
SQL 34,33,1
SEQ
        1 HADGSFSDEM NTILDNLAAR DFINWLIKTK ITD
         HITS AT:
         1 - 33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE multichain
```

```
modified (modifications unspecified)
_____
         ----- location ----- description
_____
bridge Lys-28 - Bal-1' amide bridge uncommon Bal-1' - -
_____
   STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
LC
    ANSWER 5 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
    682841-36-7 REGISTRY
RN
CN
    L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
    phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    lysyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
    18: PN: WO2004035624 PAGE: 169 claimed sequence
CN
SQL 33
SEQ
        1 HADGSFSDEM NTILDNLAAR DFINWLIKTK ITD
         ______
HITS AT:
         1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**.
    STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
    ANSWER 6 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
    671255-75-7 REGISTRY
RN
    L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
CN
    phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-\alpha-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
    NAME)
OTHER NAMES:
CN
    11: PN: US20040052862 SEQID: 13 unclaimed protein
SQL 33
SEQ
        1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
         HITS AT:
         1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
    STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
    ANSWER 7 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
RN
    671252-45-2 REGISTRY
CN
    L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
    phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-α-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
    NAME)
OTHER NAMES:
CN
    2: PN: US20040052862 SEQID: 3 claimed protein
SQL 33
SEQ
        1 HADGSFSDEM NTILDNLATR DFINWLIQTK ITD
```

```
HITS AT:
            1 - 33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
     STN Files:
                  CA, CAPLUS, TOXCENTER, USPATFULL
     ANSWER 8 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
     607691-92-9 REGISTRY
RN
CN
     L-Aspartic acid, N-[3-[4-hydroxy-3-(iodo-125I)phenyl]-1-oxopropyl]-L-
     \verb|histidyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-L-phenylalanyl-L-seryl-|
     L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-asparaginyl-L-threonyl-
     \hbox{$L$-isoleucyl-$L$-leucyl-$L$-asparaginyl-$L$-leucyl-$L$-alanyl-$L$-}
     \verb|alanyl-L-arginyl-L-$\alpha$- as \verb|partyl-L-phenylalanyl-L-isoleucyl-L-|
     asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-glutaminyl-L-threonyl-L-
     lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX NAME)
SQL
     33
SEO
          1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
            HITS AT:
           1 - 33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE modified (modifications unspecified)
LC
     STN Files:
                  CA, CAPLUS
     ANSWER 9 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
RN
     583899-33-6 REGISTRY
CN
     L-Aspartic acid, L-histidyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-L-
     \label{eq:continuous} \begin{array}{ll} -\text{L-seryl-L-}\alpha-\text{aspartyl-L-}\alpha-\text{glutamyl-L-methionyl-L-} \\ \end{array}
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-\alpha-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-\alpha-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
     glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
     NAME)
OTHER NAMES:
     34: PN: WO03071268 PAGE: 28 unclaimed protein
SQL
SEQ '
         1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
           HITS AT:
           1 - 33
**RELATED SEQUENCES AVAILABLE WITH SEOLINK**
     STN Files:
                  CA, CAPLUS, TOXCENTER, USPATFULL
     ANSWER 10 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L<sub>8</sub>
RN
     562123-39-1 REGISTRY
CN L-Lysine, L-histidyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-L-
     phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-\alpha-aspartyl-L-\\
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-\alpha-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
     glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-L-\alpha-aspartyl-L-
     arginyl-L-arginyl- (9CI) (CA INDEX NAME)
SQL
SEQ
         1 HADGSFSDEM NTILDNLAAR DFINWLIOTK ITDRRK
           HITS AT:
           1-33
LC
     STN Files:
                  CA, CAPLUS
L8
     ANSWER 11 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
```

```
RN
     460112-05-4 REGISTRY
     L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
CN
    phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-valyl-L-leucyl-L-α-aspartyl-L-threonyl-L-
     leucyl-L-alanyl-L-threonyl-L-arginyl-L-α-aspartyl-L-phenylalanyl-L-
     isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-leucyl-L-glutaminyl-L-
     threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
    Glucagon-like peptide II (Canis familiar stomach)
CN
    Glucagon-like peptide II (dog pancreas)
CN
SQL
         1 HADGSFSDEM NTVLDTLATR DFINWLLQTK ITD
SEQ
           1-33
HITS AT:
                 CA, CAPLUS
LC
    STN Files:
     ANSWER 12 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
RN
     451446-01-8 REGISTRY
     L-Lysinamide, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
CN
     phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
     glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-L-α-aspartyl-N6-
     [[2-[2-[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-
     oxopropyl]amino]ethoxy]ethoxy]acetyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
    13: PN: WO02066511 PAGE: 43 claimed sequence
CN
SQL
    34
SEQ
         1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITDK
           _____ ======
HITS AT:
           1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE
    modified (modifications unspecified)
LC
     STN Files:
                 CA, CAPLUS
L8
     ANSWER 13 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
RN
     451445-99-1 REGISTRY
CN
     L-\alpha-Asparagine, N-[[2-[2-[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-
     1-oxopropyl]amino]ethoxy]ethoxy]acetyl]-L-histidyl-L-alanyl-L-\alpha-
     aspartylglycyl-L-seryl-L-phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-
     glutamyl-L-methionyl-L-asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-
     α-aspartyl-L-asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-
     α-aspartyl-L-phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-
     leucyl-L-isoleucyl-L-glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-
     (9CI)
            (CA INDEX NAME)
OTHER NAMES:
     12: PN: WO02066511 PAGE: 42 claimed sequence
CN
SQL
SEQ
         1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
           HITS AT:
          1 - 33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
    modified (modifications unspecified)
LC
    STN Files:
                 CA, CAPLUS
    ANSWER 14 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
1.8
```

```
451445-90-2 REGISTRY
RN
CN
    L-Lysinamide, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
     phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-\alpha-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
     glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-L-α-aspartyl-N6-
     [3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxopropyl]- (9CI) (CA INDEX
     NAME)
OTHER NAMES:
    3: PN: WO02066511 PAGE: 38 claimed sequence
CN
SQL 34
         1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITDK
SEQ
           HITS AT:
           1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE modified (modifications unspecified)
LC
     STN Files:
                 CA, CAPLUS
    ANSWER 15 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
     451445-89-9 REGISTRY
RN
CN
     L-\alpha-Asparagine, N-[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-
     oxopropyl]-L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
     phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
     glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
     NAME)
OTHER NAMES:
CN
     2: PN: WO02066511 PAGE: 37 claimed sequence
SQL 33
         1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
SEO
           __________
           1-33
HITS AT:
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE modified (modifications unspecified)
LC
     STN Files:
                  CA, CAPLUS
1.8
    ANSWER 16 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
     451445-88-8 REGISTRY
RN
     L-\alpha-A sparagine, \ L-histidyl-L-alanyl-L-\alpha-a spartylglycyl-L-seryl-
CN
     \texttt{L-phenylalanyl-L-seryl-L-} \alpha - \texttt{aspartyl-L-} \alpha - \texttt{glutamyl-L-methionyl-L-}
     asparaqinyl-L-threonyl-L-isoleucyl-L-leucyl-L-\alpha-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-\alpha-aspartyl-L-\\
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
     glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
     NAME)
OTHER NAMES:
     1: PN: WO02066511 PAGE: 36 claimed sequence
CN
SQL
SEQ
         1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
           HITS AT:
           1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE modified
```

```
----- location ----- description
_____
terminal mod. Asp-33 - C-terminal amide
LC STN Files: CA, CAPLUS
    ANSWER 17 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
T.R
    240485-42-1 REGISTRY
RN
    L-Arginine, L-histidyl-L-alanyl-L-\aaspartylglycyl-L-seryl-L-
CN
    phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-\alpha-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    \verb|glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-L-\alpha-aspartyl-L-|
    lysyl- (9CI) (CA INDEX NAME)
    35
SQL
        1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITDKR
SEO
          ______________________________
         1-33
HITS AT:
    STN Files: CA, CAPLUS
LC
    ANSWER 18 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
    223460-94-4 REGISTRY
RN
    Glucagon-like peptide II (human), 19-L-threonine- (9CI) (CA INDEX NAME)
CN
SQL
   34
SEO
        1 HADGSFSDEM NTILDNLATR DFINWLIQTK ITDR
          1-33
HITS AT:
    STN Files: CA, CAPLUS
LC
    ANSWER 19 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
    223460-79-5 REGISTRY
RN
    1-33-Glucagon-like peptide II (human) (9CI) (CA INDEX NAME)
CN
OTHER NAMES:
    1: PN: US6297214 SEQID: 1 claimed protein
CN
    1: PN: WO2004035624 FIGURE: 1 claimed protein
CN
CN
    2: PN: US6184201 SEQID: 2 unclaimed protein
    Glucagon-like peptide II (human)
CN
CN
    Human glucagon-like peptide-2
SQL
    33
SEQ
        1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
          HITS AT:
         1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
    STN Files: CA, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL
LC
L8
    ANSWER 20 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
    204402-09-5 REGISTRY
RN
    Glucagon-like peptide II (human), 30-[N6-(19-carboxy-1-oxononadecyl)-L-
CN
    lysine]-34a-L-arginine- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
    Glucagon-related peptide II (human), 30-[N6-(19-carboxy-1-oxononadecyl)-L-
    lysine]-34a-L-arginine-
SQL 35
SEO
        1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITDRR
          ---------
```

```
HITS AT:
          1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE
    modified (modifications unspecified)
LC
     STN Files:
                CA, CAPLUS, USPATFULL
L8
     ANSWER 21 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
     204402-05-1 REGISTRY
RN
CN
     Glucagon-like peptide II (human), 30-[N6-(1-oxotetradecyl)-L-lysine]-34a-L-
     arginine- (9CI)
                     (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Glucagon-related peptide II (human), 30-[N6-(1-oxotetradecyl)-L-lysine]-
CN
     34a-L-arginine-
SQL
    35
SEQ
         1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITDRR
           HITS AT:
          1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE modified (modifications unspecified)
LC
     STN Files:
                 CA, CAPLUS, USPATFULL
L8
     ANSWER 22 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
RN
     204401-96-7 REGISTRY
     Glucagon-like peptide II (human), 34a-L-arginine- (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
CN
    Glucagon-related peptide II (human), 34a-L-arginine-
SQL 35
SEQ 1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITDRR
          HITS AT:
          1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
LC
    STN Files:
               CA, CAPLUS, USPATFULL
L8
     ANSWER 23 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
RN
     197922-68-2 REGISTRY
CN
     L-Tyrosine, L-histidyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-L-
     phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-L-\alpha-aspartyl-
     (9CI)
          (CA INDEX NAME)
SQL
    34
SEQ
        1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITDY
          HITS AT:
          1-33
LC
    STN Files: CA, CAPLUS
1.8
    ANSWER 24 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
RN
    197664-37-2 REGISTRY
CN
    L-\alpha-Asparagine, L-histidyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-
    L-phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-N-[4-
     [(aminoiminomethyl)amino]butyl] - (9CI) (CA INDEX NAME)
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SQL 33
SEQ
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          HITS AT:
          1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
    modified (modifications unspecified)
LC
    STN Files:
               CA, CAPLUS
    ANSWER 25 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
    197664-30-5 REGISTRY
RN
    L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
CN
    phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-(2S)-2-amino-4-
    (methylsulfinyl)butanoyl-L-asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-
    α-aspartyl-L-asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-
    a-aspartyl-L-phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-
    leucyl-L-isoleucyl-L-glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-
    (9CI) (CA INDEX NAME)
SOL
        1 HADGSFSDEM NTILDNLATR DFINWLIQTK ITD
SEO
          ---------
HITS AT:
          1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
    modified (modifications unspecified)
NTE
    STN Files: CA, CAPLUS
LC
    ANSWER 26 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
RN
    197664-29-2 REGISTRY
    L-Aspartic acid, L-histidyl-D-alanyl-L-α-aspartylglycyl-L-seryl-L-
CN
    phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-\alpha-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    qlutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
    NAME)
OTHER NAMES:
    Glucagon-like peptide II [2-D-alanine] (rat)
CN
SOL
SEO
        1 HADGSFSDEM NTILDNLATR DFINWLIOTK ITD
          HITS AT:
          1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE
              ----- location -----
                                          description
type
_____
       Ala-2
                             - D
stereo
______
LC STN Files: CA, CAPLUS, USPATFULL
    ANSWER 27 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
Г8
    197664-24-7 REGISTRY
RN
    L-Aspartic acid, L-histidyl-D-alanyl-L-α-aspartylglycyl-L-seryl-L-
CN
    phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-arginyl-L-\alpha-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
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```
glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
    NAME)
SQL
    33
SEQ
        1 HADGSFSDEM NTILDNLAAR DFINWLIQTK ITD
         HITS AT:
         1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
______
             ----- location ----- description
type
______
stereo Ala-2
                                    D
______
    STN Files: CA, CAPLUS
LC
    ANSWER 28 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
1.8
    195262-56-7 REGISTRY
RN
CN
    \hbox{$L$-Aspartic acid, $L$-histidyl-$L$-alanyl-$L$-$\alpha$-aspartylglycyl-$L$-seryl-$L$-}
    phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
    asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
    asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-\alpha-aspartyl-L-
    phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
    glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
    NAME)
OTHER NAMES:
CN
    165: PN: WO0069900 SEQID: 345 unclaimed protein
CN
    2: PN: US6297214 SEQID: 2 claimed protein
CN
    Glucagon-like peptide II (rat)
CN Rat glucagon-like peptide 2
                               SQL 33
        1 HADGSFSDEM NTILDNLATR DFINWLIQTK ITD
SEQ
         HITS AT:
         1-33
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
    STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
1.8
    ANSWER 29 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
    184378-26-5 REGISTRY
RN
CN
    L-Aspartic acid, L-arginyl-L-arginyl-L-histidyl-L-alanyl-L-α-
    aspartylglycyl-L-seryl-L-phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-
    glutamyl-L-methionyl-L-asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-
    α-aspartyl-L-asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-
    α-aspartyl-L-phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-
    leucyl-L-isoleucyl-L-glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-
    (9CI) (CA INDEX NAME)
SQL
    35
SEQ
        1 RRHADGSFSD EMNTILDNLA TRDFINWLIQ TKITD
           3-35
HITS AT:
    STN Files: CA, CAPLUS, USPATFULL
LC
    ANSWER 30 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
RN
    184378-25-4 REGISTRY
CN
    L-Aspartic acid, L-arginyl-L-histidyl-L-alanyl-L-α-aspartylqlycyl-L-
    seryl-L-phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-
    methionyl-L-asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-\alpha-aspartyl-
    L-asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-α-aspartyl-L-
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phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
         qlutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
         NAME)
SQL
        34
                1 RHADGSFSDE MNTILDNLAT RDFINWLIQT KITD
SEQ
                     _____ ___ ______
HITS AT:
                   2-34
         STN Files: CA, CAPLUS, USPATFULL
LC
         ANSWER 31 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
1.8
         184378-24-3 REGISTRY
RN
         L-Aspartic acid, N-acetyl-L-histidyl-L-alanyl-L-α-aspartylglycyl-L-
CN
         seryl-L-phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-qlutamyl-L-
         methionyl-L-asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-
         L-asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-α-aspartyl-L-
         phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
         qlutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
         NAME)
SQL
        33
                1 HADGSFSDEM NTILDNLATR DFINWLIQTK ITD
SEO
                   ____________
HITS AT:
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
NTE modified
                ----- location ----- description
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terminal mod. His-1 - N-acetyl
______
        STN Files: CA, CAPLUS, USPATFULL
        ANSWER 32 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
RN
         184378-22-1 REGISTRY
        L-\alpha-Asparagine, \ L-histidyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-alanyl-L-\alpha-aspartylglycyl-L-seryl-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-alanyl-L-ala
         L-phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-
         asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
         asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-α-aspartyl-L-
         phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
         glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl- (9CI) (CA INDEX
         NAME)
SQL
        33
SEO
                1 HADGSFSDEM NTILDNLATR DFINWLIOTK ITD
                   HITS AT:
                   1-33
**RELATED SEOUENCES AVAILABLE WITH SEOLINK**
NTE modified
               ----- location ----- description
terminal mod. Asp-33 - C-terminal amide
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        STN Files: CA, CAPLUS, USPATFULL
L8
        ANSWER 33 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
        116111-21-8 REGISTRY
RN
        Glucagon-like peptide II (swine) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
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CN
    Glucagon-related peptide II (swine)
OTHER NAMES:
CN
    Glucagon-related peptide II (pig)
CN
    L-Aspartic acid, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
    phenylalanyl-L-seryl-L-\alpha-aspartyl-L-\alpha-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-valyl-L-leucyl-L-α-aspartyl-L-asparaginyl-L-
     leucyl-L-alanyl-L-threonyl-L-arginyl-L-α-aspartyl-L-phenylalanyl-L-
     isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-leucyl-L-histidyl-L-
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SQL
SEQ
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          HITS AT:
          1 - 33
LC
    STN Files:
                CA, CAPLUS, USPATFULL
     ANSWER 34 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
1.8
     104364-59-2 REGISTRY
RN
    Glucagon-like peptide II (guinea pig clone gpGCG-2) (9CI)
                                                              (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
CN
    Glucagon-related peptide II (guinea pig clone gpGCG-2)
SQL 35
        1 HADGSFSDEM NTILDNLATR DFINWLIQTK ITDRK
SEQ
          HITS AT:
           1-33
    STN Files:
                 CA, CAPLUS
LC
    ANSWER 35 OF 35 REGISTRY COPYRIGHT 2004 ACS on STN
L8
     93927-39-0 REGISTRY
RN
    Glucagon-like peptide II (rat) (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
    Glucagon-related peptide II (rat)
OTHER NAMES:
    L-Lysine, L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-
CN
     phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-
     asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-
     asparaginyl-L-leucyl-L-alanyl-L-threonyl-L-arginyl-L-\alpha-aspartyl-L-
     phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-L-isoleucyl-L-
     glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-L-α-aspartyl-L-
     lysyl-
SQL
    35
        1 HADGSFSDEM NTILDNLATR DFINWLIQTK ITDKK
SEQ
          HITS AT:
          1-33
LC
    STN Files: CA, CAPLUS, USPATFULL
=> => fil capl uspatf toxcenter; s 18
FILE 'CAPLUS' ENTERED AT 16:46:38 ON 23 DEC 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
FILE 'TOXCENTER' ENTERED AT 16:46:38 ON 23 DEC 2004
COPYRIGHT (C) 2004 ACS
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L9
              64 L8
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=> dup rem 19

PROCESSING COMPLETED FOR L9

L1055 DUP REM L9 (9 DUPLICATES REMOVED)

ANSWERS '1-36' FROM FILE CAPLUS

ANSWERS '37-55' FROM FILE USPATFULL

=> d ibib ed ab hitrn 1-55; fil hom

L10 ANSWER 1 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2004:354976 CAPLUS

DOCUMENT NUMBER: 140:386446

Synthesis and production of glucagon-like peptide-2 TITLE:

(GLP-2) derivatives and, formulations and therapeutic

uses thereof

Thim, Lars; Bang, Susanne; Schlein, Morten; Kaarsholm, INVENTOR(S):

Niels Christian; Engelund, Dorthe Kot; Nielsen, Anette Sams; Johansen, Nils Langeland; Madsen, Kjeld; Zundel,

Magali; Thygesen, Peter

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 195 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	KIND DATE	APPLICATION NO.	DATE
	A2 20040429	WO 2003-DK694	20031014
WO 2004035624		we bees buest	
		BA, BB, BG, BR, BY, BZ	
CO, CR, CU,	CZ, DE, DK, DM,	DZ, EC, EE, EG, ES, FI	, GB, GD, GE,
GH, GM, HR,	HU, ID, IL, IN,	IS, JP, KE, KG, KP, KR	, KZ, LC, LK,
LR, LS, LT,	LU, LV, MA, MD,	MG, MK, MN, MW, MX, MZ	, NI, NO, NZ,
OM, PG, PH,	PL, PT, RO, RU,	SC, SD, SE, SG, SK, SL	, SY, TJ, TM,
TN, TR, TT,	TZ, UA, UG, UZ,	VC, VN, YU, ZA, ZM, ZW	
RW: GH, GM, KE,	LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZM, ZW	, AM, AZ, BY,
KG, KZ, MD,	RU, TJ, TM, AT,	BE, BG, CH, CY, CZ, DE	, DK, EE, ES,
FI, FR, GB,	GR, HU, IE, IT,	LU, MC, NL, PT, RO, SE	, SI, SK, TR,
BF, BJ, CF,	CG, CI, CM, GA,	GN, GQ, GW, ML, MR, NE	, SN, TD, TG
US 2004122210	A1 20040624	US 2003-685368	20031014
PRIORITY APPLN. INFO.:		DK 2002-1574	A 20021014
•		DK 2002-1778	
		DK 2002-1780	A 20021119
		US 2002-420581P.	P 20021023
		US 2002-426273P	P 20021114
		US 2002-434560P	P 20021219
		US 2002-434562P	P 20021219

OTHER SOURCE(S): MARPAT 140:386446

Entered STN: 30 Apr 2004 ED

The present invention relates to novel human glucagon-like peptide-2 AB (GLP-2) peptides and human glucagon-like peptide-2 derivs. which have a protracted profile of action as well as polynucleotide constructs encoding such peptides, vectors and host cells comprising and expressing the polynucleotide, pharmaceutical compns., uses and methods of treatment.

IT 223460-79-5, 1-33-Glucagon-like peptide II (human)

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; synthesis and production of glucagon-like peptide-2 (GLP-2) derivs. and, formulations and therapeutic uses thereof)

IT 682841-36-7P 683751-57-7P

> RL: BMF (Bioindustrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and production of glucagon-like peptide-2 (GLP-2) derivs. and, formulations and therapeutic uses thereof)

L10 ANSWER 2 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2

ACCESSION NUMBER:

2004:392300 CAPLUS

DOCUMENT NUMBER:

140:400092

TITLE:

Peptide compositions with effects on cerebral health During, Matthew J.; Haile, Colin N.; Cao, Lei

INVENTOR(S):

PATENT ASSIGNEE(S):

Thomas Jefferson University, USA

SOURCE:

U.S. Pat. Appl. Publ., 67 pp., Cont.-in-part of U.S.

Ser. No. 939,472.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004092432	A1	20040513	US 2003-405090	20030401
US 2002115605	A1	20020822	US 2001-939472	20010824
PRIORITY APPLN. INFO.:			US 2000-227631P P	20000824
			US 2001-939472 A	2 20010824
			US 2002-369249P P	20020401

ED Entered STN: 14 May 2004

The present invention provides compns. and methods for ameliorating AB neurol. or memory disorders and improving learning and cognition through the increase of cAMP. Gilatides, peptides comprising the nine amino acid sequence HSEGTFTSD, and functional analogs thereof, are disclosed to modulate neurol. activity when administered to a subject. The methods of the invention can be used to prevent or treat neurol. disorders as well as improve memory retention and acquisition. The invention includes pharmaceutical compns. comprising a therapeutically or prophylactically effective amount of a Gilatide peptide or a functional analog thereof. Rats administered Gilatide had improved memory consolidation.

IT 688377-37-9

RL: PRP (Properties)

(unclaimed sequence; peptide compns. with effects on cerebral health)

L10 ANSWER 3 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3

ACCESSION NUMBER:

2004:219841 CAPLUS

DOCUMENT NUMBER:

140:247608

TITLE:

Pharmaceutical compositions and methods for the use of GLP analogs in the treatment, prevention, diagnosis, and prognosis of bone-related and nutrition-related

disorders

INVENTOR(S):

Henriksen, Dennis B.; Holst, Jens J.

PATENT ASSIGNEE(S):

Den.

SOURCE:

U.S. Pat. Appl. Publ., 50 pp., Cont.-in-part of U.S.

Pat. Appl. 2002 37,836.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ----

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20040318
                                               US 2003-393524
                                                                        20030320
     US 2004052862
                           A1
                                               US 2001-954304
                           A1
                                  20020328
                                                                        20010918
     US 2002037836
                           B2
                                  20040803
     US 6770620
     AU 2001087892
                           A5
                                  20020402
                                               AU 2001-87892
                                                                        20010918
                                  20040506
                                               EP 2001-967517
                                                                       20010918
     EP 1414486
                           A2
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                  20040812
                                               JP 2002-528284
                                                                        20010918
     JP 2004524268
                           T2
                                                                    A 20000918
PRIORITY APPLN. INFO.:
                                               GB 2000-22844
                                                                    A 20001207
                                               GB 2000-29920
                                               US 2001-954304
                                                                    A2 20010918
                                                                    P 20020410
                                               US 2002-371307P
                                                                    W 20010918
                                               WO 2001-GB4178
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OTHER SOURCE(S): MARPAT 140:247608

Entered STN: 19 Mar 2004 ED

The present invention relates to methods for prevention and treatment of AB bone-related or nutrition-related disorders using a GLP mol. or GLP activator either alone or in combination with another therapeutic. present invention also encompasses methods of diagnosing or monitoring the progression of a disorder. The invention also encompasses methods of monitoring the effectiveness of treatment of the invention.

671252-45-2 IT

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(pharmaceutical compns. and methods for use of glucagon-like peptides (GLP) analogs in treatment, prevention, diagnosis, and prognosis of bone-related and nutrition-related disorders)

671255-75-7 IT

RL: PRP (Properties)

(unclaimed protein sequence; pharmaceutical compns. and methods for the use of GLP analogs in the treatment, prevention, diagnosis, and prognosis of bone-related and nutrition-related disorders)

L10 ANSWER 4 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4

ACCESSION NUMBER:

2003:679060 CAPLUS

DOCUMENT NUMBER:

139:191369

TITLE:

Identification of drug targets for rational drug

design using model systems and comparative genomics

INVENTOR (S):

Schleuning, Wolff-Dieter; Schulz, Torsten

PATENT ASSIGNEE(S):

Paion G.m.b.H., Germany PCT Int. Appl., 76 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATI	PATENT NO.					0	DATE			APPL	ICAT:	ION 1	. O <i>r</i>		D	ATE	
						-											
WO 2	2003	0712	68		A2		2003	0828	1	WO 2	003-1	EP17	55		20	0030	220
WO 2	2003	0712	68		A 3		2004	0311									
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	ВG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	D, IL, IN		IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	V, MA,		MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW						
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	ΤZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	SI,	SK,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG	
US 2	JS 2003203373				A1		2003	1030	1	US 2	002-	2012	88		20	0020	724

EP 1476746 A2 20041117 EP 2003-742564 20030220 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.:

DE 2002-10208187 A 20020220 WO 2003-EP1765 W 20030220

ED Entered STN: 29 Aug 2003

AB A method of identifying potential drug targets for use in rational drug design using model systems that demonstrate properties of interest and comparative genomics to identify genes involved is described. The method involves identifying systems, such as model organisms or cell cultures, in which a biol. active substance having a desired effect is produced. Endogenous analogs of this substance are identified, e.g. by sequence comparison, and used as a basis for rational drug design. Use of snake venom bradykinin potentiating peptide sequences to identify endogenous human equivalent by BLAST querying of sequence databases is demonstrated. Use of these peptides to develop novel peptides with increased antihypertensive activity is demonstrated.

IT 583899-33-6

RL: PRP (Properties)

(unclaimed sequence; identification of drug targets for rational drug design using model systems and comparative genomics)

L10 ANSWER 5 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5

ACCESSION NUMBER:

2001:719082 CAPLUS

DOCUMENT NUMBER:

135:267701

TITLE:

Large intestine function enhancement and intestinal inflammatory disease treatment using glucagon-like

peptide 2 and GLP-2 analogs

INVENTOR(S):

Drucker, Daniel J.

PATENT ASSIGNEE(S):

1149336 Ontario, Inc., Can.

SOURCE:

U.S., 17 pp., Cont.-in-part of U.S. Ser. No. 850,664,

abandoned.
CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6297214	B1	20011002	US 1998-149831	19980908
US 6586399	B1	20030701	US 2000-692238	20001020
US 2003207809	A1	20031106	US 2003-419150	20030421
PRIORITY APPLN. INFO.:			US 1997-850664	B2 19970502
			US 1998-149831	A1 19980908 °
			US 2000-692238	A3 20001020

ED Entered STN: 03 Oct 2001

AB The invention relates to glucagon-related peptides and their use for the prevention or treatment of disorders involving the large intestine. In particular, it has now been demonstrated that GLP-2 and peptidic agonists of GLP-2 can cause proliferation of the tissue of large intestine. Thus, the invention provides methods of proliferating the large intestine in a subject in need thereof. Further, the methods of the invention are useful to treat or prevent inflammatory conditions of the large intestine, including inflammatory bowel diseases. Also claimed are methods for identifying other peptides useful in treating inflammatory conditions involving the large intestine.

IT 195262-56-7 197664-29-2 223460-79-5,

1-33-Glucagon-like peptide II (human)

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

Harle 10/042746 Page 17

(large intestine function enhancement and intestinal inflammatory disease treatment using glucagon-like peptide 2 and GLP-2 analogs)
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS

REFERENCE COON!.

Sy THEME ARE SY CITED RELIGIOUS AVAILABLE IN THE RE FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAL

L10 ANSWER 6 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6

ACCESSION NUMBER: 2001:91506 CAPLUS

DOCUMENT NUMBER: 134:168296

TITLE: Intestinotrophic glucagon-like peptide-2 analogs INVENTOR(S): Drucker, Daniel J.; Crivici, Anna E.; Sumner-Smith,

Martin

PATENT ASSIGNEE(S): NPS Allelix Corp., Can.

SOURCE: U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 631,273,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

US 6184201 B1 20010206 US 1997-835538 19970	408
US 5990077 A 19991123 US 1995-422540 19950	414
US 5789379 A 19980804 US 1996-669791 19960	628
US 5834428 A 19981110 US 1996-669790 19960	628
US 2001021767 A1 20010913 US 2001-764070 20010	119
EP 1231219 A1 20020814 EP 2001-129072 20011	207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,	PT,
IE, FI	
US 2003162703 A1 20030828 US 2002-293941 20021	114
US 2003158101 A1 20030821 US 2002-42746 20021	120
PRIORITY APPLN. INFO.: US 1995-422540 A2 19950	414
US 1996-631273 B2 19960	412
US 1996-632533 B2 19960	412
US 1997-835538 A3 19970	408
US 2001-764070 A1 20010	119
EP 1997-916280 A3 20011	207

OTHER SOURCE(S): MARPAT 134:168296

ED Entered STN: 07 Feb 2001

AB Analogs of glucagon-like peptide 2, a product of glucagon gene expression, have been identified as intestinal tissue growth factors. Their formulation as pharmaceuticals and therapeutic use in treating disorders of the small bowel are described.

IT 223460-79-5, 1-33-Glucagon-like peptide II (human)

RL: PRP (Properties)

(unclaimed protein sequence; intestinotrophic glucagon-like peptide-2 analogs)

REFERENCE COUNT:

29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7

ACCESSION NUMBER:

2000:824291 CAPLUS

DOCUMENT NUMBER:

134:21425

TITLE:

Protection of endogenous therapeutic peptides from

peptidase activity through conjugation to blood

components

INVENTOR(S):

Bridon, Dominique P.; Ezrin, Alan M.; Milner, Peter

G.; Holmes, Darren L.; Thibaudeau, Karen

PATENT ASSIGNEE(S):

Conjuchem, Inc., Can.

SOURCE:

PCT Int. Appl., 733 pp.

CODEN: PIXXD2

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DOCUMENT TYPE:
LANGUAGE:
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ED

Patent English

FAMILY ACC. NUM. COUNT:

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PATENT NO.
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                                               APPLICATION NO.
                                                                          DATE
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      WO 2000069900
                                    20001123
                            A2
                                                WO 2000-US13576
                                                                           20000517
      WO 2000069900
                            A3
                                    20010215
      WO 2000069900
                            C2
                                    20020704
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              CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
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      CA 2373252
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                                                CA 2000-2373680
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                                                                           20000517
      WO 2000070665
                            A2
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                            A3
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     EP 1105409
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                            A2
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     EP 1171582
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     EP 1264840
                            A1
                                   20021211
                                                EP 2002-14617
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     JP 2003500341 T2
                                               JP 2000-619018
                                   20030107
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     JP 2003508350
                            T2
                                   20030304
                                               JP 2000-618316
                                                                         20000517
     AU 765753
                                               AU 2000-51393
                           B2 20030925
                                                                         20000517
                         B1 20030204 US 2000-657332
A 20020719 ZA 2001-6676
A 20020613 ZA 2001-9110
A1 20030612 US 2002-287892
B2 20041123
     US 6514500
                                                                        20000907
     ZA 2001006676
                                                                         20010814
     ZA 2001009110
                                                                         20011105
     US 2003108567
                                                                         20021104
     US 6821949
                          A1 20030612.
A1 20040701
A1 20040715
     US 2003108568
                                                US 2002-288340
                                                                         20021104
     US 2004127398
                                                                      20031125
                                                US 2003-722733
     US 2004138100
                                                US 2003-723099
                                                                          20031125
PRIORITY APPLN. INFO.:
                                                 US 1999-134406P
                                                                     P 19990517
                                                                   P 19990910
P 19991015
                                                 US 1999-153406P
                                                 US 1999-159783P
                                                                    A3 20000517
W 20000517
                                                 EP 2000-932570
                                                 WO 2000-IB763
                                                WO 2000-US13576 W 20000517
US 2000-623548 A1 20000905
US 2000-657332 A3 20000907
                                                 US 2002-288340
                                                                     A1 20021104
     Entered STN: 24 Nov 2000
```

A method for protecting a peptide from peptidase activity in vivo, the ΔR peptide being composed of between 2 and 50 amino acids and having a C-terminus and an N-terminus and a C-terminus amino acid and an N-terminus amino acid is described. In the first step of the method, the peptide is modified by attaching a reactive group to the C-terminus amino acid, to the N-terminus amino acid, or to an amino acid located between the N-terminus and the C-terminus, such that the modified peptide is capable of forming a covalent bond in vivo with a reactive functionality on a blood component. The solid phase peptide synthesis of a number of derivs. with 3-maleimidopropionic acid (3-MPA) is described. In the next step, a covalent bond is formed between the reactive group and a reactive functionality on a blood component to form a peptide-blood component conjugate, thereby protecting said peptide from peptidase activity. The final step of the method involves the analyzing of the stability of the peptide-blood component conjugate to assess the protection of the peptide from peptidase activity. Thus, the percentage of a K5 kringle peptide (Pro-Arg-Lys-Leu-Tyr-Asp-Lys-NH2) conjugated to human serum albumin via MPA remained relatively constant through a 24-h plasma assay in contrast to unmodified K5 which decreased to 9% of the original amount of K5 in only 4 h in plasma.

195262-56-7 IT

RL: PRP (Properties)

(unclaimed protein sequence; protection of endogenous therapeutic peptides from peptidase activity through conjugation to blood components)

L10 ANSWER 8 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8

2000:264473 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 133:276792

Synthesis of rat glucagon-like peptide (GLP)-2 and its TITLE:

biological and immunochemical studies

Kato, Ikuo; Jun, Li; Kitamura, Kazuyuki; Tada, AUTHOR (S):

Hirotoshi; Yanaihara, Noboru; Hirotani, Yoshihiko; Yamamoto, Kaoru; Kurokawa, Nobuo; Yanaihara, Chizuko Yanaihara Institute Inc., Awakura, Fujinomiya-shi,

CORPORATE SOURCE: 418-0011, Japan

Peptide Science (1999), 36th, 159-162 SOURCE:

CODEN: PSCIFQ; ISSN: 1344-7661

PUBLISHER: Japanese Peptide Society

DOCUMENT TYPE: Journal LANGUAGE: English Entered STN: 24 Apr 2000

Rat GLP-2 was synthesized with Fmoc-strategy using an automated solid AB phase synthesizer. The synthetic rat GLP-2 showed potent trophic effect on rat intestinal bowel resection. The synthetic rat GLP-2 was used as immunogen to produce antiserum with high titer in rabbit. The ELISA thus developed using the anti-GLP-2 serum was useful for measurement of GLP-2-LI in human as well as rat.

195262-56-7P

RL: ANT (Analyte); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation)

(synthesis of rat glucagon-like peptide-2 and its biol. and immunochem.

studies)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:817916 CAPLUS

DOCUMENT NUMBER: 141:326195

TITLE: Synthesis of protracted GLP-2 derivatives attached to

an hydrophilic substituent and therapeutic uses

```
thereof
INVENTOR (S):
                         Kodra, Janos Tibor; Johansen, Nils Langeland; Thim,
                         Lars; Peschke, Bernd
PATENT ASSIGNEE(S):
                         Novo Nordisk A/S, Den.
SOURCE:
                         PCT Int. Appl., 66 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                        KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
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     WO 2004085471
                                           WO 2004-DK198
                         A2
                                20041007
                                                                   20040323
     WO 2004085471
                         A3
                                20041104
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             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
             SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
             TD, TG
PRIORITY APPLN. INFO.:
                                            DK 2003-451
                                                                A 20030324
                                            US 2003-459838P
                                                               P 20030402
OTHER SOURCE(S):
                         MARPAT 141:326195
     Entered STN: 07 Oct 2004
ED
     The present invention relates to novel derivs. of human glucagon-like-
AB
     peptide-2 (GLP-2) peptides which have a protracted profile of action, as
     well as pharmaceutical compns., uses and methods of treatment.
IT
     768850-15-3DP, polyalkyleneglycol derivs.
     RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
     PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (amino acid sequence; synthesis of protracted GLP-2 derivs. attached to
        an hydrophilic substituent and therapeutic uses thereof)
     223460-79-5, 1-33-Glucagon-like peptide II (human)
IT
     RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
     (Biological study)
        (amino acid sequence; synthesis of protracted GLP-2 derivs. attached to
        an hydrophilic substituent and therapeutic uses thereof)
     768850-15-3
IT
     RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
        (amino acid sequence; synthesis of protracted GLP-2 derivs. attached to
        an hydrophilic substituent and therapeutic uses thereof)
L10 ANSWER 10 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                        2004:681602 CAPLUS
DOCUMENT NUMBER:
                         141:212849
TITLE:
                         Injection device with rotatable dose setting
INVENTOR(S):
                         Miller, Thomas Dedenroth; Hansen, Steffen; Sorensen,
                         Niels Christian Egholm
PATENT ASSIGNEE(S):
                     . Novo Nordisk A/S, Den.
SOURCE:
                         PCT Int. Appl., 37 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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Harle 10/042746

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PATENT NO.
                        KIND
                                DATE
                                           APPLICATION NO.
     WO 2004069314
                                20040819 WO 2004-DK44
                         A1
                                                                  20040123
         W: AE, AE, AG, AL, AL, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG,
             BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR,
             CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES,
             ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN,
             IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC,
             LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX,
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             BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
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     US 2004199125
                                20041007
                                            US 2004-770586
                         A1
                                                                    20040203
                                                               A 20030204
PRIORITY APPLN. INFO.:
                                            DK 2003-155
                                                               A 20030703
                                            DK 2003-1011
                                            US 2003-446489P P 20030211
US 2003-485355P P 20030707
     Entered STN: 20 Aug 2004
ED
     An injection device comprising a housing and a dose setting mechanism
AB
     including a dose setting element. Contrary to prior art injection
     devices, the dose setting element can only be set at a few different dose
     settings. This is established by forming the dose setting element as a
     rotatable dish concealed within the housing and having a number of
     projections projecting outside the boundaries of the housing through a
     slot in the housing. A dose is set by activating a projection which in
     addition provides the user with a tactile guidance. Usually one projection
     is provided for one dose setting limiting the number of doses to be set to
     the number of projections. The invention further relates to a method of
     using such an injection device for the administration of a fluid
     pharmaceutical formulation comprising a GLP-1 compound or a GLP-2 compound
TT
     741700-41-4
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (injection devices housing cartridge containing glucagon-like peptides in
        solution with dose-setting mechanism)
L10 ANSWER 11 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         2004:665369 CAPLUS
DOCUMENT NUMBER:
                         141:236938
TITLE:
                         Lipid raft-dependent glucagon-like peptide-2 receptor
                         trafficking occurs independently of agonist-induced
                         desensitization
AUTHOR (S):
                         Estall, Jennifer L.; Yusta, Bernardo; Drucker, Daniel
                         J.
CORPORATE SOURCE:
                         Departments of Laboratory Medicine and Pathobiology,
                         and Medicine, The Banting and Best Diabetes Centre, Toronto General Hospital, University of Toronto,
                         Toronto, ON, M5G 2C4, Can.
                         Molecular Biology of the Cell (2004), 15(8), 3673-3687
SOURCE:
                         CODEN: MBCEEV; ISSN: 1059-1524
PUBLISHER:
                         American Society for Cell Biology
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
ED
     Entered STN: 16 Aug 2004
AB
     The intestinotrophic and cytoprotective actions of glucagon-like peptide-2
     (GLP-2) are mediated by the GLP-2 receptor (GLP-2R), a member of the class
     II glucagon-secretin G protein-coupled receptor superfamily. Although
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degradation-resistant GLP-2 analogs are being evaluated for therapeutic use in

native GLP-2 exhibits a short circulating half-life, long-acting

human subjects. Accordingly, the authors examined the mechanisms regulating signaling, internalization, and trafficking of the GLP-2R to identify determinants of receptor activation and desensitization. Heterologous cells expressing the transfected rat or human GLP-2R exhibited a rapid, dose-dependent, and prolonged desensitization of the GLP-2-stimulated cAMP response and a sustained GLP-2-induced decrease in levels of cell surface receptor. Surprisingly, inhibitors of clathrin-dependent endocytosis failed to significantly decrease GLP-2R internalization, whereas cholesterol sequestration inhibited ligand-induced receptor internalization and potentiated homologous desensitization. localized to both Triton X-100-soluble and -insol. (lipid raft) cellular fractions and colocalized transiently with the lipid raft marker caveolin-1. Although GLP-2R endocytosis was dependent on lipid raft integrity, the receptor transiently associated with green fluorescent protein tagged-early endosome antigen 1-pos. vesicles and inhibitors of endosomal acidification attenuated the reappearance of the GLP-2R on the cell surface. The authors' data demonstrate that GLP-2R desensitization and raft-dependent trafficking represent distinct and independent cellular mechanisms and provide new evidence implicating the importance of a clathrin- and dynamin-independent, lipid raft-dependent pathway for homologous G protein-coupled receptor internalization.

IT 195262-56-7, Rat glucagon-like peptide 2 223460-79-5, Human glucagon-like peptide 2

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(lipid raft-dependent glucagon-like peptide-2 receptor trafficking
occurs independently of agonist-induced desensitization as evaluated in
baby hamster kidney fibroblast and DLD-1 cells)

REFERENCE COUNT:

THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 12 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:760874 CAPLUS

DOCUMENT NUMBER:

139:286601

TITLE:

Glucagon-like peptide-2 receptor activation in the rat

intestinal mucosa

AUTHOR (S):

Walsh, Natalie A.; Yusta, Bernardo; Dacambra, Mark P.; Anini, Younes; Drucker, Daniel J.; Brubaker, Patricia

L.

CORPORATE SOURCE:

Department of Physiology, University of Toronto,

Toronto, M5S 1A8, Can.

SOURCE:

Endocrinology (2003), 144(10), 4385-4392

CODEN: ENDOAO; ISSN: 0013-7227

PUBLISHER:

Endocrine Society

DOCUMENT TYPE: LANGUAGE:

Journal English

ED Entered STN: 29 Sep 2003

Glucagon-like peptide-2 (GLP-2) increases small intestinal growth and AB function in rodents and human subjects. GLP-2 exerts its effects through a seven-transmembrane domain, G protein-coupled receptor (GLP-2R), stimulating cAMP generation and activating protein kinase A signaling in heterologous cell lines transfected with the GLP-2R. As intestinal cell lines expressing the GLP-2R have not been identified, the authors developed methods for studying GLP-2R signaling in the rat small intestinal mucosa in vitro. Isolated rat intestinal mucosal cells expressed mRNA transcripts for the GLP-2R, as well as for chromogranin A and β -tubulin III, markers for enteroendocrine and neural cells, resp. CAMP production in response to [Gly2]GLP-2, a degradation-resistant analog of GLP-2, was maximal at 10-11 M (268 \pm 93% of control, P < 0.001), with reduced cAMP accumulation observed at higher doses. The cAMP response was diminished by pretreatment with 10-9 M GLP-2, and was abolished by pretreatment with 10-6 M GLP-2 (P < 0.05), indicating receptor desensitization. GLP-2 treatment of isolated mucosal cells increased

3H-thymidine incorporation (to 128±8% of controls, P < 0.05), and this was prevented by inhibition of the protein kinase A pathway with H89. contrast, GLP-2 did not affect p44/p42 MAPK phosphorylation or the levels of cytosolic calcium in the mucosal cell preparation These results provide the first evidence that activation of the endogenous rat mucosal GLP-2 receptor is linked to activation of a cAMP/protein kinase A-dependent, growth-promoting pathway in vitro.

IT 195262-56-7

AUTHOR (S):

RL: BSU (Biological study, unclassified); BIOL (Biological study) (glucagon-like peptide-2 receptor activation in rat intestinal mucosa in relation to underlying signaling mechanism)

THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 46 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

2003:343939 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 139:286537

Established theory of radiation-induced decay is not TITLE:

> generalizable to Bolton-Hunter labeled peptides Doran, Amanda C.; Wan, Yieh-Ping; Kopin, Alan S.;

Beinborn, Martin

CORPORATE SOURCE: Molecular Cardiology Research Institute, Molecular

Pharmacology Research Center, Tufts-New England

Medical Center, Boston, MA, 02111, USA

Biochemical Pharmacology (2003), 65(9), 1515-1520 SOURCE:

CODEN: BCPCA6; ISSN: 0006-2952

Elsevier Science Inc. PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE: Entered STN: 06 May 2003

AB Peptide hormones radiolabeled with 125I are widely used for the pharmacol. characterization of cognate receptors. As a prerequisite for calculating ligand affinities from competition binding assays, and for estimating receptor densities from such studies, it is necessary to know the concentration of bioactive radioligand that is used in resp. expts. It has been demonstrated previously that radioiodinated peptides undergo decay catastrophe, i.e., disintegration of the radioactive label leads to the concomitant destruction of the carrier peptide. Decay catastrophe does not apply to two peptide hormones that are iodinated by Bolton-Hunter conjugation: cholecystokinin octapeptide and glucagon-like peptide 2. function of aged samples of these radioligands at corresponding recombinantly expressed receptors was assessed by measuring ligand-induced inositol phosphate production or generation of cAMP, resp. Both of the tested compds., although predicted by decay catastrophe to contain little or subthreshold remaining bioactivity, stimulated an unexpectedly high level of receptor-mediated second messenger signaling. Quant. comparison of observed functions with those of corresponding unlabeled peptides suggested that the bioactivity of each radioligand had been largely conserved despite the radioactive decay of the iodine label. Consistent with an apparent absence of decay catastrophe, the authors noted that the specific radioactivity, when determined immediately following peptide iodination, was close to the theor. maximum but exponentially decreased over time. findings raise the possibility that attachment of a Bolton-Hunter conjugate may shield labeled peptides from radiation-induced damage, a scenario that should be considered when performing radioligand binding expts.

IT 223460-79-5, Human glucagon-like peptide 2

RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(established theory of radiation-induced decay is not generalizable to Bolton-Hunter labeled peptides in relation to second messenger signaling in COS-7 cells)

IT 607691-92-9

RL: ANT (Analyte); BSU (Biological study, unclassified); CPS (Chemical process); PEP (Physical, engineering or chemical process); ANST (Analytical study); BIOL (Biological study); PROC (Process)

(established theory of radiation-induced decay is not generalizable to Bolton-Hunter labeled peptides in relation to second messenger

signaling in COS-7 cells)

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 14 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

22

ACCESSION NUMBER:

2003:238973 CAPLUS

DOCUMENT NUMBER:

REFERENCE COUNT:

139:144187

TITLE:

No effect of physiological concentrations of

glucagon-like peptide-2 on appetite and energy intake

in normal weight subjects

AUTHOR (S):

Sorensen, L. B.; Flint, A.; Raben, A.; Hartmann, B.;

Holst, J. J.; Astrup, A.

CORPORATE SOURCE:

Dep. Human Nutrition, Cent. Adv. Food Studies, The Royal Veterinary and Agricultural Univ., Frederiksberg

C, DK-1958, Den.

SOURCE:

International Journal of Obesity (2003), 27(4),

450-456

CODEN: IJOBDP; ISSN: 0307-0565 Nature Publishing Group

PUBLISHER:
DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED Entered STN: 28 Mar 2003

AB Studies were carried out to examine the effect of GLP-2 infusion on appetite sensations and ad libitum energy intake in healthy, normal weight humans. The experiment was performed in a randomized, blinded and placebo-controlled crossover design. Placebo or GLP-2 was infused (infusion rate of 25 pmol/kg body weight) for 4.5 h. A total of 18 healthy normal weight young subjects participated: 8 women and 10 men. During the infusion, subjects recorded their appetite sensations every 30 min. using visual analog scales and blood was sampled frequently. After 2 h of infusion, an ad libitum meal, consisting of sandwiches, was served. concentration of GLP-2 was significantly higher during the GLP-2 infusion compared with placebo and increased further in both conditions in response to the meal. Neither appetite sensations, nor palatability of the test meals, or energy intake were different on the two occasions. Glucose, GLP-1, insulin, and GIP responses were also unaffected by the infusion, whereas glucagon levels were higher during the GLP-2 treatment. Thus, circulating GLP-2 in physiol. concns. does not seem to play a significant role in human appetite regulation.

IT 223460-79-5, Human glucagon-like peptide 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (no effect of physiol. concns. of glucagon-like peptide-2 on appetite and energy intake in normal weight subjects)

REFERENCE COUNT:

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 15 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2003:206500 CAPLUS

TITLE:

Expression, purification, and PC1-mediated processing of human proglucagon, glicentin, and major proglucagon

fragment

139:111817

AUTHOR(S):

Bonic, Anela; Mackin, Robert B.

CORPORATE SOURCE:

Department of Biomedical Sciences, Creighton

University School of Medicine, Omaha, NE, 68178-0405,

USA

Harle 10/042746 Page 25

Protein Expression and Purification (2003), 28(1), SOURCE:

CODEN: PEXPEJ; ISSN: 1046-5928

Elsevier Science PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 17 Mar 2003

To examine the cleavage specificity of different members of the AB furin/propeptide convertase (PC) family of enzymes, the authors have selected proglucagon (PG) as a model substrate. PG was selected because it is subject to differential processing in vivo. PG is thought to be cleaved initially at an interdomain site to produce glicentin and the major proglucagon fragment (MPGF). These intermediates are subsequently cleaved, most likely by the convertases PC2 and PC1, resp. To determine the exact sites within PG that are cleaved by PC1 and PC2, the authors attempted to produce milligram quantities of human PG, glicentin, and MPGF for use in an in vitro conversion assay. A methionine residue was added to the N-terminus of each protein to initiate translation. Purification was achieved using cation exchange and reversed-phase chromatog., and the integrity of the methionylated proteins was confirmed by both electrospray ionization-mass spectrometry and amino acid anal. The combined expression and purification scheme is fast, efficient, and results in milligram quantities of ≥95% pure proglucagon, ≥95% pure MPGF, and ≥93% pure glicentin. These prohormones are cleaved by PC1 to produce product peptides consistent with the processing of PG observed in vivo, and should therefore be suitable for further anal. of the post-translational processing of PG.

IT 562123-39-1P

RL: ANT (Analyte); BSU (Biological study, unclassified); PUR (Purification or recovery); ANST (Analytical study); BIOL (Biological study); PREP (Preparation)

(expression, purification and PC1-mediated processing of human proglucagon, glicentin and major proglucagon fragment)

REFERENCE COUNT:

THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS 42 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 16 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

2002:658156 CAPLUS ACCESSION NUMBER:

137:180207 DOCUMENT NUMBER:

Preparation of long-lasting glucagon-like peptide 2 TITLE:

(GLP-2) analogs and derivatives for the treatment of

gastrointestinal diseases and disorders

Bridon, Dominique P.; Boudjellab, Nissab; Leger, INVENTOR(S):

Roger; Robitaille, Martin; Thibaudeau, Karen; Carette,

Julie

Patent

PATENT ASSIGNEE(S): Conjuchem Inc., Can.

PCT Int. Appl., 62 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT N	PATENT NO.					DATE		i	APPL	ICAT:	ION I	NO.		D	ATE	
					_									-		
WO 20020	06651	1		A2		2002	0829	1	WO 2	002-0	CA17	5		2	00202	215
WO 20020	O 2002066511 A3 W: AE, AG, AL, AM,					2003	0306									
W:	AE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KΡ,	KR,	KZ,	LC,	LK,	LR,
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,

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UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     CA 2436399
                                20020829
                                            CA 2002-2436399
                          AA
                                                                   20020215
     EP 1360202
                          A2
                                20031112
                                            EP 2002-700079
                                                                   20020215
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2004532819
                          T2
                                20041028
                                            JP 2002-566224
                                                                    20020215
                                            US 2002-203808
     US 2004248782
                          A1
                                20041209
                                                                    20020812
PRIORITY APPLN. INFO .: "
                                            US 2001-269276P
                                                                P
                                                                   20010216
                                                                W 20020215
                                            WO 2002-CA175
OTHER SOURCE(S):
                         MARPAT 137:180207
ED
     Entered STN: 30 Aug 2002
AB
     This invention relates to glucagon-like peptide 2 (GLP-2) derivs. and
     analogs with gastrointestinal growth promoting activity that have a
     reactive entity that makes the peptide capable of bonding to blood
     component. In particular, this invention relates to GLP-2 peptide derivs.
     having an extended in vivo half-life, for the treatment or prevention of
     gastrointestinal disorders or diseases such as inflammatory bowel disease
     and other gastrointestinal functions, from any segment of the
     gastrointestinal tract, from the esophagus to the anus.
     451445-88-8P 451445-89-9P 451445-90-2P
IT
     451445-99-1P 451446-01-8P
     RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (preparation of long-lasting glucagon-like peptide 2 (GLP-2) analogs and
        derivs. that bind to blood components for treatment of gastrointestinal
        diseases_and disorders) _
L10 ANSWER 17 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         2002:481745 CAPLUS
DOCUMENT NUMBER:
                         137:242349
TITLE:
                         cDNA cloning of proglucagon from the stomach and
                         pancreas of the dog
AUTHOR (S):
                         Irwin, David M.
CORPORATE SOURCE:
                         Department of Laboratory Medicine and Pathobiology,
                         University of Toronto, Toronto, ON, M5G IL5, Can.
SOURCE:
                         DNA Sequence (2001), 12(4), 253-260
                         CODEN: DNSEES; ISSN: 1042-5179
PUBLISHER:
                         Harwood Academic Publishers
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     Entered STN: 27 Jun 2002
AB
     In human and rat, tissue-specific proteolytic processing of identical
     proglucagon precursors yield tissue-specific proglucagon-derived peptides.
     In contrast, in many non-mammalian vertebrates alternative mRNA splicing
     yields different proglucagon precursors in different tissues.
     alternative mRNA splicing, in part, limits the choices of
     proglucagon-derived peptides that can be produced by proteolytic
    processing. Stomach proglucagon mRNAs from the rainbow trout and Xenopus
     laevis were found not to encode the proglucagon-derived peptide
    glucagon-like peptide 2 (GLP-2). To determine if the absence of GLP-2 was a
    general feature of stomach proglucagons, the authors isolated and
    characterized proglucagon cDNAs from the stomach and the pancreas of the
    dog, a mammal that expresses the proglucagon gene in the stomach. A major
    proglucagon transcript of about 1100 bases and a minor transcript of about
    800 bases were identified in both stomach and pancreas. The coding
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sequences of both the stomach and pancreatic proglucagon transcripts were identical. Therefore, tissue-specific proteolytic processing, and not

alternative mRNA splicing, must regulate the production of tissue-specific proglucagon-derived peptides from the stomach of the \log .

IT 460112-05-4

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; of preproglucagon from dog, and sequence of peptides (glicentin, glucagon, GLP-1, GLP-2 and GRPP) resulting cleavage of prepro)

REFERENCE COUNT:

19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 18 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:455819 CAPLUS

DOCUMENT NUMBER:

133:203102

TITLE:

Structural Determinants for Activity of Glucagon-like

Peptide-2

AUTHOR (S):

DaCambra, Mark P.; Yusta, Bernardo; Sumner-Smith, Martin; Crivici, Anna; Drucker, Daniel J.; Brubaker,

Patricia L.

CORPORATE SOURCE:

Departments of Physiology and Medicine, University of

Toronto, Toronto, M5S 1A8, Can.

SOURCE:

Biochemistry (2000), 39(30), 8888-8894

CODEN: BICHAW; ISSN: 0006-2960

PUBLISHER:

American Chemical Society

DOCUMENT TYPE: LANGUAGE: Journal English

ED Entered STN: 07 Jul 2000

Glucagon-like peptide-2 (GLP-2) is a 33 amino acid gastrointestinal AB hormone that regulates epithelial growth in the intestine. Dipeptidylpeptidase IV cleaves GLP-2 at the position 2 alanine, resulting in the inactivation of peptide activity. To understand the structural basis for GLP-2 action, we studied receptor binding and activation for 56 GLP-2 analogs with either position 2 substitutions or alanine replacements along the length of the peptide. The majority of position 2 substitutions exhibited normal to enhanced GLP-2 receptor (GLP-2R) binding; in contrast, position 2 substitutions were less well tolerated in studies of receptor activation as only Gly, Ile, Pro, α -aminobutyric acid, D-Ala, or nor-Val substitutions exhibited enhanced GLP-2R activation. In contrast, alanine replacement at positions 5,6,17, 20, 22, 23, 25, 26, 30, and 31 led to diminished GLP-2R binding. Position 2 substitutions containing Asp, Leu, Lys, Met, Phe, Trp, and Tyr, and Ala substitutions at positions 12 and 21 exhibited normal to enhanced GLP-2R binding but greater than 75% reduction in receptor activation. D-Ala2, Pro2 and Gly2, Ala16 exhibited significantly lower EC50s for receptor activation than the parent peptide. CD anal. indicated that the enhanced activity of these GLP-2 analogs was independent of the α -helical content of the peptide. These results indicate that single amino acid substitutions within GLP-2 can confer structural changes to the ligand-receptor interface, allowing the identification of residues important for GLP-2R binding and receptor activation.

93927-39-0, Glucagon-like peptide II (rat) 197664-29-2
223460-79-5, 1-33-Glucagon-like peptide II (human)
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(structural determinants for glucagon-like peptide-2 activity)

REFERENCE COUNT:

38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 19 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:910724 CAPLUS

DOCUMENT NUMBER:

134:66461

GLP-2 stimulates intestinal growth in premature TITLE: TPN-fed pigs by suppressing proteolysis and apoptosis Burrin, D. G.; Stoll, B.; Jiang, R.; Petersen, Y.; AUTHOR (S): Elnif, J.; Buddington, R. K.; Schmidt, M.; Holst, J. J.; Hartmann, B.; Sangild, P. T. CORPORATE SOURCE: Agricultural Research Service, Children's Nutrition Research Center, Department of Pediatrics, Baylor College of Medicine, United States Department of Agriculture, Houston, TX, 77030, USA American Journal of Physiology (2000), 279(6, Pt. 1), SOURCE: G1249-G1256 CODEN: AJPHAP; ISSN: 0002-9513 American Physiological Society PUBLISHER: DOCUMENT TYPE: Journal English LANGUAGE: Entered STN: 29 Dec 2000 The authors wished to determine whether exogenous glucagon-like peptide (GLP)-2 AΒ infusion stimulates intestinal growth in parenterally fed immature pigs. Piglets (106-108 days gestation) were given parenteral nutrient infusion (TPN), TPN + human GLP-2 (25 nmol·kg-1·day-1), or sow's milk enterally (ENT) for 6 days. Intestinal protein synthesis was then measured in vivo after a bolus dose of [1-13C] phenylalanine, and degradation was calculated from the difference between protein accretion and synthesis. Crypt cell proliferation and apoptosis were measured in situ by 5-bromodeoxyuridine (BrdU) and terminal dUTP nick-end labeling (TUNEL), Intestinal protein and DNA accretion rates and villus heights were similar in GLP-2 and ENT pigs, and both were higher (P < 0.05) than in TPN pigs. GLP-2 decreased fractional protein degradation rate, whereas ENT increased fractional protein synthesis rate compared with TPN pigs. Percentage of TUNEL-pos. cells in GLP-2 and ENT groups was 48 and 64% lower, resp., than in TPN group (P < 0.05). However, ENT, but not GLP-2, increased percentage of BrdU-pos. crypt cells above that in TPN piglets. The authors conclude that GLP-2 increases intestinal growth in premature, TPN-fed pigs by decreasing proteolysis and apoptosis, whereas enteral nutrition acts via increased protein synthesis and cell proliferation and decreased apoptosis. 223460-79-5, Human glucagon like peptide-2 IT RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (GLP-2 stimulates intestinal growth in premature TPN-fed pigs by suppressing proteolysis and apoptosis) THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 31 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L10 ANSWER 20 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN 2000:270743 CAPLUS ACCESSION NUMBER: 133:41523 DOCUMENT NUMBER: Circulating levels of glucagon-like peptide-2 in human TITLE: subjects with inflammatory bowel disease Xiao, Qiang; Boushey, Robin P.; Cino, Maria; Drucker, AUTHOR (S): Daniel J.; Brubaker, Patricia L. Department of Physiology, Mount Sinai Hospital and the CORPORATE SOURCE: Toronto General Hospital, Toronto, ON, M5G 2C4, Can. American Journal of Physiology (2000), 278(4, Pt. 2), SOURCE: R1057-R1063 CODEN: AJPHAP; ISSN: 0002-9513 American Physiological Society PUBLISHER: DOCUMENT TYPE: Journal LANGUAGE: English

intestine-derived peptide that exerts trophic activity in the small and

Glucagon-like peptide-2 (GLP-2) is a recently characterized

Entered STN: 26 Apr 2000

large intestine. Whether circulating levels of GLP-2 are perturbed in the setting of human inflammatory bowel disease (IBD) remains unknown. circulating levels of bioactive GLP-2-(1-33) compared with its degradation product GLP-2-(3-33) were assessed using a combination of RIA and HPLC in normal and immunocompromised control human subjects and patients hospitalized for IBD. The activity of the enzyme dipeptidyl peptidase IV (DP IV), a key determinant of GLP-2-(1-33) degradation was also assessed in the plasma of normal controls and subjects with IBD. The circulating levels of bioactive GLP-2-(1-33) were increased in patients with either ulcerative colitis (UC) or Crohn's disease (CD; to 229 and 317%, of normal, resp.). Furthermore, the proportion of total immunoreactivity represented by intact GLP-2-(1-33), compared with GLP-2-(3-33), was increased from 43% in normal healthy controls to 61% and 59% in patients with UC and CD, resp. The relative activity of plasma DP IV was reduced in subjects with IBD compared with normal subjects (1.4 vs. 5.0 mU/mL, resp.). Thus, patients with active IBD may undergo an adaptive response to intestinal injury by increasing the circulating levels of bioactive GLP-2-(1-33), facilitating enhanced repair of the intestinal mucosal epithelium in vivo.

IT 223460-79-5, 1-33-Glucagon-like peptide II (human)

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)

(circulating levels of glucagon-like peptide-2 in human subjects with inflammatory bowel disease)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 21 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:125120 CAPLUS

DOCUMENT NUMBER: 132:232168

TITLE: Enzymatic- and renal-dependent catabolism of the

intestinotropic hormone glucagon-like peptide-2 in

rats

AUTHOR(S): Tavares, Wendy; Drucker, Daniel J.; Brubaker, Patricia

L.

CORPORATE SOURCE: Departments of Physiology, University of Toronto,

Toronto, ON, M5S 1A8, Can.

SOURCE: American Journal of Physiology (2000), 278(1, Pt. 1),

E134-E139

CODEN: AJPHAP; ISSN: 0002-9513 American Physiological Society

PUBLISHER: America:
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 24 Feb 2000

The intestinotropic hormone glucagon-like peptide (GLP)-2-(1-33) is AB cleaved in vitro to GLP-2-(3-33) by dipeptidyl peptidase IV (DP IV). determine the importance of DP IV vs. renal clearance in the regulation of circulating GLP-2-(1-33) levels in vivo, GLP-2-(1-33) or the DP IV-resistant analog [Gly2]GLP-2 was injected in normal or DP IV-neg. rats and assayed by HPLC and RIA. Normal rats showed a steady degradation of GLP-2-(1-33) to GLP-2-(3-33) over time, whereas little or no conversion was detected for GLP-2-(1-33) in DP IV-neg. rats and for [Gly2]GLP-2 in normal rats. To determine the role of the kidney in clearance of GLP-2-(1-33) from the circulation, normal rats were bilaterally nephrectomized, and plasma immunoreactive GLP-2 levels were measured. The slope of the disappearance curves for both GLP-2-(1-33) and [Gly2]GLP-2 were significantly reduced in nephrectomized compared with nonnephrectomized rats (P < 0.01). In contrast to both GLP-2-(1-33) and [Gly2]GLP-2, GLP-2-(3-33) did not stimulate intestinal growth in a murine assay in vivo. Thus the intestinotropic actions of GLP-2-(1-33) are determined both by the actions of DP IV and by the kidney in vivo in the rat.

IT 195262-56-7

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(enzymic- and renal-dependent catabolism of intestinotropic hormone glucagon-like peptide-2 in rat)

REFERENCE COUNT:

29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 22 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:142472 CAPLUS

DOCUMENT NUMBER:

132:288893

TITLE:

Structure, measurement, and secretion of human

glucagon-like peptide-2

AUTHOR(S):

Hartmann, B.; Johnsen, A. H.; Orskov, C.; Adelhorst,

K.; Thim, L.; Holst, J. J.

CORPORATE SOURCE:

Panum Institute, Department of Medical Physiology, University of Copenhagen, Copenhagen, DK-2200, Den.

SOURCE:

Peptides (New York) (2000), 21(1), 73-80

CODEN: PPTDD5; ISSN: 0196-9781 Elsevier Science Inc.

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE:

English

Entered STN: 02 Mar 2000

By using RIAs toward the cDNA-predicted amino acid sequence of human AB glucagon-like peptide-2, a peptide was isolated from exts. of human ileum. By mass spectrometry and Edman sequencing, this peptide was identified as human proglucagon 126-158. HPLC analyses indicated that a similar immunoreactive peptide (iGLP-2) was present in human plasma. Human plasma concns. of iGLP-2 were elevated 3- to 4-fold at 1 to 2 h after ingestion of 800 to 1200 kcal meals.

223460-79-5P, Human glucagon-like peptide-2

RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation) (structure, measurement, and secretion of human glucagon-like peptide-2 in healthy humans receiving three mixed meals)

REFERENCE COUNT:

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS 34 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 23 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:736497 CAPLUS

DOCUMENT NUMBER:

131:318292

TITLE:

Glucagon-related peptides and their use for the

prevention or treatment of disorders involving the

large intestine

INVENTOR(S):

Drucker, Daniel J.

PATENT ASSIGNEE(S):

1149336 Ontario Inc., Can.

SOURCE:

PCT Int. Appl., 40 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT	PATENT NO.				D 1	DATE		į.	APPL:	ICAT	ION I	NO.		D	ATE	
					_					- -						
WO 9958	144			A1		1999:	1118	1	WO 1	998-	CA47	7		19	9980!	511
W:	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	ВG,	BŔ,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
	DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	GW,	HU,	ID,	IL,	IS,	JP,	KΕ,	KG,
	KΡ,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
	NO,	NZ,	PL,	PT,	RO,	RU										
RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	ΑT,	ΒE,	CH,	CY,	DE,	DK,	ES,
	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CI,	CM,
	GA,	GN,	ML,	MR,	ΝE,	SN,	TD,	TG								

Harle 10/042746 Page 31

19980511

PRIORITY APPLN. INFO.: WO 1998-CA477 A 19980511

ED Entered STN: 19 Nov 1999

AB The invention relates to glucagon-related peptides and their use for the prevention or treatment of disorders involving the large intestine. In particular, it has now been demonstrated that GLP-2 and peptidic agonists of GLP-2 can cause proliferation of the tissue of large intestine. Thus, the invention provides methods of proliferating the large intestine in a subject in need thereof. Further, the methods of the invention are useful to treat or prevent inflammatory conditions of the large intestine,

19991129

IT 195262-56-7 195262-56-7D, analogs 197664-29-2
223460-79-5, 1-33-Glucagon-like peptide II (human)
223460-79-5D, 1-33-Glucagon-like peptide II (human), analogs
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(glucagon-related peptides and use for prevention or treatment of disorders involving the large intestine)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 24 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

Α1

ACCESSION NUMBER: 1999:565944 CAPLUS

including inflammatory bowel diseases.

DOCUMENT NUMBER: 131:189728

TITLE: GLP-2 derivatives with helix-content exceeding 25 %,

forming partially structured micellar-like aggregates

AU 1998-74215

INVENTOR(S): Knudsen, Liselotte Bjerre; Huusfeldt, Per Olaf;

Nielsen, Per Franklin; Kaarsholm, Niels C.; Olsen,

Helle Birk; Thim, Lars; Bjorn, Soren Erik

PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 12

PATENT INFORMATION:

AU 9874215

PA'	TENT		KINI) :	DATE		7	APPL	ICAT:	ION I	NO.		D.	ATE				
		-													-			
WO	9943	361			A1		1999	0902	1	WO 1	999-1	DK80			1	9990:	225	
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		ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	
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AU	9927	128			A1		1999	0915	i	AU 1	999-	2712	8		1	9990	225	
· EP	1060	192			A1 19990915 A2 20001220				1	EP 1	999-	9073	25		1	9990	225	
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JP	2002	5045	27		T2		2002	0212		JP 2	000-	5331	56		1	9990:	225	
US	2002	0259	33		A1		2002	0228	1	US 2	001-	9085	34		2	0010	718	
US	2004	1274	18		A1		2004	0701	1	US 2	003-	7302	15		2	0031	208	
PRIORIT	Y APP	LN.	INFO	. :			_		1	DK 1	998-	271			A 1	9980:	227	
]	DK 1	996-	931			A 1	9960	830	
]	DK 1	996-	1259			A 1	9961	108	
											997-	3590	5 P		P 1	9970	124	
									1	US 1	997-	3622	6P		P 1	9970	125	
									1	US 1	997-	9222	00		B2 1	9970	902	
												8578	9P		P 1	9980	518	

US 1999-258187 B1 19990225 WO 1999-DK80 W 19990225 US 2001-908534 A1 20010718

OTHER SOURCE(S): MARPAT 131:189728

ED Entered STN: 08 Sep 1999

AB The present invention relates to a pharmaceutical composition comprising a GLP-2 derivative of improved solubility and/or stability, and to a method for improving the solubility and/or stability of GLP-2 or a fragment or an analog thereof. Lys30 [N ϵ -[γ -glutamyl(N α -tetradecanoyl)]]hGLP-

2 was prepared from hGLP-2-OH, EDPA, NMP and Myr-Glu(ONSu)-OBu-tert.

IT 240485-42-1

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (GLP-2 derivs. with helix-content exceeding 25% forming partially structured micellar-like aggregates)

REFERENCE COUNT:

6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 25 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:150910 CAPLUS

DOCUMENT NUMBER:

130:306729

TITLE:

Prototypic G protein-coupled receptor for the intestinotrophic factor glucagon-like peptide 2
Munroe Donald G: Gunta Ashwani K: Kooghoch

AUTHOR(S):

Munroe, Donald G.; Gupta, Ashwani K.; Kooshesh, Fatemeh; Vyas, Tejal B.; Rizkalla, Geihan; Wang, Hong; Demchyshyn, Lidia; Yang, Zhi-Jie; Kamboj, Rajender K.:

Demchyshyn, Lidia; Yang, Zhi-Jie; Kamboj, Rajender K.; Chen, Hongyun; McCallum, Kirk; Sumner-Smith, Martin;

Drucker, Daniel J.; Crivici, Anna

CORPORATE SOURCE:

Allelix Biopharmaceuticals Inc., Mississauga, ON, L4V

1V7, Can.

SOURCE:

Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1569-1573

CODEN: PNASA6; ISSN: 0027-8424 National Academy of Sciences

PUBLISHER:

Journal English

DOCUMENT TYPE:

LANGUAGE: Englis ED Entered STN: 09 Mar 1999

Glucagon-like peptide 2 (GLP-2) is a 33-aa proglucagon-derived peptide AB produced by intestinal enteroendocrine cells. GLP-2 stimulates intestinal growth and upregulates villus height in the small intestine, concomitant with increased crypt cell proliferation and decreased enterocyte apoptosis. Moreover, GLP-2 prevents intestinal hypoplasia resulting from total parenteral nutrition. However, the mechanism underlying these actions has remained unclear. Here the authors report the cloning and characterization of cDNAs encoding rat and human GLP-2 receptors (GLP-2R), a G protein-coupled receptor superfamily member expressed in the gut and closely related to the glucagon and GLP-1 receptors. The human GLP-2R gene maps to chromosome 17p13.3. Cells expressing the GLP-2R responded to GLP-2, but not GLP-1 or related peptides, with increased cAMP production (EC50 = 0.58 nM) and displayed saturable high-affinity radioligand binding (Kd = 0.57 nM), which could be displaced by synthetic rat GLP-2 (Ki = 0.06 nM). GLP-2 analogs that activated GLP-2R signal transduction in vitro displayed intestinotrophic activity in vivo. These results strongly suggest that GLP-2, like glucagon and GLP-1, exerts its actions through a distinct and specific novel receptor expressed in its principal target tissue, the gastrointestinal tract.

T 184378-24-3 195262-56-7 197922-68-2

223460-79-5, 1-33-Glucagon-like peptide II (human)

223460-94-4

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (glucagon-like peptide 2 receptor distribution and intestinotrophic activity in relation to structure)

Page 33

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 26 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:402335 CAPLUS

DOCUMENT NUMBER: 129:77032

TITLE: Compositions containing glucagon-related peptides in

combination with other agents for enhancing intestinal

function

INVENTOR(S): Drucker, Daniel J.

PATENT ASSIGNEE(S): 1149336 Ontario Inc., Can.; Drucker, Daniel J.

SOURCE: PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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												1997-					9971	210
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				GN,									•	•	•	•		
	US	5952									US	1996-	7631	77		1	9961	210
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											AU	1998-	5220	0		1	9971	210
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		9443													•			
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			IE,			•	•		•	•			•	•				
	ΑT	2330				E		2003	0315		ΑT	1997-	9469	86		1	9971	210
		9443						2003	0731		PT	1997-	9469	86		1	9971	210
		2193						2003	1101		ES	1997-	9469	86		1	9971	210
PRIO	RITY	APP	LN.	INFO	. :						US	1996-	7631	77		A 1	9961	210
			-									1997-					9971	
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ED Entered STN: 01 Jul 1998

AB GLP-2 stimulates the growth of both small intestine and large intestine tissue when administered in conjunction with other agents. The invention provides pharmaceutical compns. of GLP-2 with at least one other agent that increase the biol. activity of GLP-2, methods of enhancing the growth of both small and large intestine tissue and of ameliorating nutritional or gastrointestinal disorders by increasing serum levels of GLP-2 and at least one other agent, and kits for performing the methods of the invention.

IT 93927-39-0, Glucagon-related peptide II (rat)

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(compns. containing glucagon-related peptides in combination with other agents for enhancing intestinal function)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 27 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1998:163617 CAPLUS

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DOCUMENT NUMBER:
                         128:230696
TITLE:
                         Preparation of lipophilic derivatives of human
                         glucagon-like peptide-2 (hGLP-2)
INVENTOR(S):
                         Knudsen, Liselotte Bjerre; Sorensen, Per Olaf;
                         Nielsen, Per Franklin
PATENT ASSIGNEE(S):
                         Novo Nordisk A/S, Den.; Knudsen, Liselotte Bjerre;
                         Sorensen, Per Olaf; Nielsen, Per Franklin
SOURCE:
                         PCT Int. Appl., 26 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
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FAMILY ACC. NUM. COUNT: 12

PATENT INFORMATION:

	PA'	rent	NO.					DATE									ATE	
	WO	9808															9970	
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								GE,										
								LU,										
								SG,								UA,	ŪĠ,	US,
			UZ,	VN,	YU,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM			
		RW:	GH,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,
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			GN,	ML,	MR,	ΝE,	SN,	TD,	TG									
	JP	2001	01109					2001									9970	
	ZA	9707	791			Α		1998	0302		ZA 1	997-'	7791			1	9970	829
	ZA	9707				Α		1998	0302		ZA 1	997-	7828			1	9970	901
	ΑU	9741	124			A1		1998	0319		AU 1	997-4	1112	4		1	9970	901
	EΡ	9295	76			A1		1999	0721	:	EP 1:	997-9	9388	02		1	9970	
		_R:	_AT.,	BE,	CH,	DE, DK, ES, FR, O					GR,	IT.,	LI,	LU,	NL,	SE,	PT,	·IE.,
			SI,	LT,	LV,	FI,	RO											
	JP	2000	51730	8		T 2		2000	1226	,	JP 1	998-5	5111	93		1	9970	901
	US	2002	02593	33		A1		2002	0228	1	US 2	001-9	9085	34		2	0010	718
	US	2004	1274	L8		A1		2004	0701	1	US 2	003-1	7302	15		2	0031	208
PRIOR	(TI	APP	LN.	NFO.	. :]	DK 1	996-9	931		2	1	9960 9961	830
										1	DK 1	996-3	1259		1	1	9961	108
										1	DK 1	996-3	L470		1	1	9961	220
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										1	US 1:	997-3	3622	5P	I	· 1	9970	125
												998-5					9970	
												997-I				v 1	9970	901
												997-9					9970	902
												998-2					99802	
										1	JS 19	998-8	3578	9P			9980	
																	99902	
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77	-	-													_	_		

ED Entered STN: 19 Mar 1998

Derivs. of hGLP-2 (H-His-Ala-Asp-Gly-Ser-Phe-Ser-Asp-Glu-Met-Asn-Thr-Ile-AB Leu-Asp-Asn-Leu-Ala-Ala-Arg-Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr-Lys-Ile-Thr-Asp-Arg-OH), where a lipophilic substituent (such as an acyl group of a straight-chain or branched fatty acid) is attached to any one amino acid residue, are claimed. For example, Lys30 (Nɛ-tetradecanoy1) hGLP-2 was synthesized in 47% yield from the reactants hGLP-2 and tetradecanoic acid hydroxysuccinimide ester in the presence of N-ethyl-N,Ndiisopropylamine (EDPA) and N-methyl-2-pyrrolidone (NMP). The titled compds. can be used in the treatment of obesity, small bowel syndrome, etc. (no data).

204401-96-7P 204402-05-1P 204402-09-5P ITRL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

Harle 10/042746 Page 35

(preparation of lipophilic derivs. of hGLP-2)

REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS 3

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 28 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:407767 CAPLUS

DOCUMENT NUMBER:

131:28314

TITLE:

Methods of enhancing functioning of the large

intestine with glucagon-related peptides

INVENTOR(S): Drucker, Daniel J.

PATENT ASSIGNEE(S): 1149336 Ontario Inc., Can.

SOURCE:

Can. Pat. Appl., 36 pp.

CODEN: CPXXEB Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2236519	AA	19981102	CA 1998-2236519	19980504
PRIORITY APPLN. INFO.:			US 1997-850664 A	19970502

ED Entered STN: 02 Jul 1999

AB The invention relates to glucagon-related peptides and their use for the prevention or treatment of disorders involving the large intestine. In particular, it has now been demonstrated that GLP-2 and peptidic agonists of GLP-2 can cause proliferation of the tissue of large intestine. Thus, the invention provides methods of proliferating the large intestine in a subject in need thereof. Further, the methods of the invention are useful to treat or prevent inflammatory conditions of the large intestine, including inflammatory bowel diseases. Methods for identifying peptides useful to treat inflammatory conditions involving the large intestine are also claimed.

195262-56-7 197664-29-2 IT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(GLP-2 and its analogs for the treatment or prevention of inflammatory conditions of the large intestine)

L10 ANSWER 29 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:696789 CAPLUS

DOCUMENT NUMBER:

127:327015

TITLE:

Glucagon-like peptide-2 analogs

INVENTOR (S):

Drucker, Daniel J.; Crivici, Anna E.; Sumner-smith,

Martin

PATENT ASSIGNEE(S):

1149336 Ontario Inc., Can.; Allelix Biopharmaceuticals

Inc.

SOURCE:

PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PAT	PATENT NO.				KIN	D	DATE		1	APPL	ICAT	ION 1	NO.		D	ATE	
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     EP 906338
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                                            EP 2001-129072
                                                                   20011207
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
PRIORITY APPLN. INFO.:
                                            US 1996-631273
                                                                A 19960412
                                                                W 19970411
                                            WO 1997-CA252
                                            EP 1997-916280
                                                                A3 20011207
ED
     Entered STN: 05 Nov 1997
     Analogs of glucagon-like peptide-2, a product of glucagon gene expression,
AB
     have been identified as intestinal tissue growth factors. Their
     formulation as pharmaceutical and therapeutic use in treating disorders of
     the small bowel are described.
IT
     184378-22-1P 184378-24-3P 197664-24-7P
     197664-29-2P 197664-30-5P 197664-37-2P
     197922-68-2P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (glucagon-like peptide-2 analogs)
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study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

L10 ANSWER 30 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

1997:594753 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

127:230020

TITLE:

Use of a pharmaceutical composition comprising an

appetite-suppressing peptide

INVENTOR (S):

Thim, Lars; Wulff, Birgitte Schjellerup; Judge, Martin

Edward; Madsen, Ole Dragsbaek; Holst, Jens Juul

PATENT ASSIGNEE(S):

SOURCE:

Novo Nordisk A/S, Den. PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

. PATENT NO.					KIND DATE			APPLICATION NO.						DATE			
WO	NO 9731943				A1 19970904			WO 1997-DK86						19970227			
	W :	ΑL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
													KG,				
		LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	TJ,	TM,	TR,	TT,	UA,	ŪĠ,	UZ,	VN,	AM,
		ΑZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM								
	RW:	GH,	ΚE,	LS,	MW,	SD,	SZ,	ŪĠ,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,
													CG,				
				NE,										•	•	•	•

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19970904
                                             CA 1997-2246733
                                                                     19970227
     CA 2246733
                          AA
                                                                     19970227
     AU 9718715
                          A1
                                19970916
                                             AU 1997-18715
     AU 710818
                          B2
                                19990930
                                             EP 1997-905000
                                                                     19970227
     EP 891378
                          A1
                                19990120
     EP 891378
                          B1
                                20021113
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, SI,
             LT, LV, FI, RO
                                19990428
                                             CN 1997-193525
                                                                     19970227
     CN 1215405
                          Α
     CN 1112367
                          В
                                20030625
                                19990727
                                             BR 1997-7807
                                                                     19970227
     BR 9707807
                          Α
     JP 2000505460
                          T2
                                20000509
                                             JP 1997-530524
                                                                     19970227
                          A2
                                20020814
                                             EP 2001-122701
                                                                     19970227
     EP 1231218
     EP 1231218
                          Α3
                                20021030
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, SI,
             LT, LV, FI, RO, AL
                                             AT 1997-905000
                                                                     19970227
     AT 227737
                          E
                                20021115
                                             RU 1998-117915
                                                                     19970227
     RU 2197261
                          C2
                                20030127
                          Т3
                                             ES 1997-905000
                                                                     19970227
     ES 2187756
                                20030616
                          B1
                                20040531
                                             PL 1997-328732
                                                                     19970227
     PL 187095
     US 5912229
                          Α
                                19990615
                                             US 1997-808825
                                                                     19970228
                                             NO 1998-4005
     NO 9804005
                          Α
                                19980831
                                                                     19980831
                                             DK 1996-230
PRIORITY APPLN. INFO.:
                                                                 A 19960301
                                             DK 1996-231
                                                                 Α
                                                                    19960301
                                             US 1996-15403P
                                                                 P
                                                                     19960315
                                                                 P
                                             US 1996-18865
                                                                    19960315
                                                                 A3 19970227
                                             EP 1997-905000
                                             WO 1997-DK86
                                                                 ₩ 19970227
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OTHER SOURCE(S): MARPAT 127:230020

ED Entered STN: 17 Sep 1997

AB The present invention relates to use of an appetite-suppressing pharmaceutical composition comprising, together with a pharmaceutically acceptable excipient or vehicle, an HPLC fraction of a glucagonoma tumor extract prepared by acid ethanol extract, gel filtration and preparative HPLC. The fraction contains glucagon-like peptide 2 (GLP-2) as a major component (more than 40%). In another aspect, the invention relates to use of a pharmaceutically composition comprising GLP-2 or a variant or homolog thereof for the prophylaxis of diseases or disorders associated with impaired appetite regulation. The appetite-suppressing or satiety-inducing agent can also be GLP-1.

IT 116111-21-8, Glucagon-like peptide II (swine) 195262-56-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical composition comprising appetite-suppressing peptides)

L10 ANSWER 31 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:756228 CAPLUS

DOCUMENT NUMBER:

126:19330

TITLE:

Preparation of glucagon-like peptide-2 analogs as as

gastrointestinal tissue growth factors

INVENTOR(S): Drucker, Daniel J.

PATENT ASSIGNEE(S):

1149336 Ontario Inc., Can.

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9632414	A1	19961017	WO 1996-CA232	19960412

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W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
             ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,
             LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI
         RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
             IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML
     US 5990077
                                 19991123
                                             US 1995-422540
                          Α
                                                                    19950414
     CA 2218225
                                 19961017
                          AA
                                             CA 1996-2218225
                                                                    19960412
     AU 9652658
                                             AU 1996-52658
                          Α1
                                 19961030
                                                                    19960412
     AU 720493
                          B2
                                 20000601
     EP 830377
                          Α1
                                 19980325
                                             EP 1996-908973
                                                                    19960412
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
         R:
             IE, FI
     CN 1188485
                                 19980722
                                             CN 1996-194693
                                                                    19960412
     JP 11505521
                          T2
                                 19990521
                                             JP 1996-530606
                                                                    19960412
     AU 753771
                          B2
                                 20021031
                                             AU 2001-65566
                                                                    20010830
PRIORITY APPLN. INFO.:
                                             US 1995-422540
                                                                    19950414
                                             WO 1996-CA232
                                                                 W 19960412
OTHER SOURCE(S):
                         MARPAT 126:19330
     Entered STN: 26 Dec 1996
     Glucagon-like peptide-2, a product of glucagon gene expression, and
AB
     analogs of glucagon-like peptide-2, have been identified as
     gastrointestinal tissue growth factors. Their effects on the growth of
     small bowel and pancreatic islets are described. Their formulation as a
     pharmaceutical, and their therapeutic use in treating disorders of the
     bowel, are described. Thus, rat glucagon-like peptide-2, prepared by standard
     solid-phase methods using Boc chemical on a 4-methylbenzhydrylamine (MBHA)
     resin, administered for 10 days, stimulated villus elongation in CD1 mice
     small bowel. Proliferation rates in the proximal jejunum of the treated
     mice were increased 124% over control mice.
IT. _ 93927-39-0P, Glucagon-related peptide II (rat)
     184378-22-1P 184378-24-3P 184378-25-4P
     184378-26-5P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of glucagon-like peptide-2 analogs as as gastrointestinal
        tissue growth factors)
L10 ANSWER 32 OF 55
                      CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         1988:505175 CAPLUS
DOCUMENT NUMBER:
                         109:105175
TITLE:
                         Naturally occurring products of proglucagon 111-160 in
                         the porcine and human small intestine
AUTHOR (S):
                         Buhl, Thora; Thim, Lars; Kofod, Hans; Oerskov,
                         Catherine; Harling, Henrik; Holst, Jens J.
CORPORATE SOURCE:
                         Inst. Med. Physiol., Univ. Copenhagen, Copenhagen,
                         DK-2200, Den.
SOURCE:
                         Journal of Biological Chemistry (1988), 263(18),
                         8621-4
                         CODEN: JBCHA3; ISSN: 0021-9258
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
ED
     Entered STN: 01 Oct 1988
AB
     The fate of the terminal part of proglucagon (proglucagon 111-160) was
     studied in human and porcine small intestine by using RIAs against
     proglucagon 111-123 and 126-160. Two peptides were isolated from acid
     EtOH exts. of porcine ileal mucosa and sequenced: 1 corresponding to
     proglucagon 126-158 and 1 probably corresponding to proglucagon 111-158.
     By comparing human and porcine proglucagon sequences, Ala117 of human
     proglucagon is replaced by Thr, and Ile138; Ala144, Ile152, and Gln153 are
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replaced by Val, Thr, Leu, and His, resp. By gel filtration and RIA of

intestinal exts. it was established that a large part of porcine and virtually all of human proglucagon are processed to release proglucagon 111-123 (designated spacer peptide 2), which, like proglucagon 126-158 must be considered a potential hormonal entity. By isocratic HPLC, human spacer peptide 2 was indistinguishable from synthetic proglucagon 111-122 amide, suggesting that this is the structure of the naturally occurring human peptide.

116111-21-8, Glucagon-related peptide II (pig) IT

RL: PRP (Properties)

(amino acid sequence of, of small intestine)

L10 ANSWER 33 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:1658 CAPLUS

DOCUMENT NUMBER: 112:1658

Guinea pig preproglucagon cDNA and its gene expression TITLE:

in pancreas and intestine

Yamada, Yuichiro; Seino, Yutaka; Takeda, Jun; Kurose, AUTHOR (S):

Takeshi; Yano, Hideki; Inagaki, Nobuya; Imura, Hiroo;

Seino, Susumu

Sch. Med., Kyoto Univ., Kyoto, 606, Japan CORPORATE SOURCE:

Biomedical Research (1988), 9(Suppl. 3), 7-11 SOURCE:

CODEN: BRESD5; ISSN: 0388-6107

DOCUMENT TYPE: Journal English LANGUAGE: Entered STN: 06 Jan 1990 ED

A cDNA clone encoding guinea pig (GP) preproglucagon was isolated from a AΒ pancreatic cDNA library. The predicted amino acid sequence indicates that GP proglucagon is highly homologous with other mammalian proglucagons, except for 5 amino acid substitutions at the C-terminal portion of the glucagon region. To better understand the transcriptional regulation of the GP glucagon gene, the effect of fasting and dexamethasone treatment on gene expression was examined using Northern blot anal. Twenty-four and 48 h starvation increased the transcriptional level to double normal level both in the pancreas and the intestine. Moreover, dexamethasone treatment had no effect on starvation-induced glucagon gene expression. Since starvation produces a decrease in blood glucose, GP glucagon gene expression may increase to compensate for possibly decreased metabolic activity of GP glucagon.

104364-59-2, Glucagon-related peptide II (Cavia porcellus clone IT

qpGCG-2)

AUTHOR(S):

RL: PRP (Properties)

(amino acid sequence of)

L10 ANSWER 34 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

1987:79113 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 106:79113

Proglucagon processing in a rat islet cell line TITLE:

resembles phenotype of intestine rather than pancreas Philippe, Jacques; Mojsov, Svetlana; Drucker, Daniel

J.; Habener, Joel F.

Lab. Mol. Endocrinol., Massachusetts Gen. Hosp., CORPORATE SOURCE:

Boston, MA, 02114, USA

Endocrinology (1986), 119(6), 2833-9 SOURCE:

CODEN: ENDOAO; ISSN: 0013-7227

Journal DOCUMENT TYPE: LANGUAGE: English

Entered STN: 21 Mar 1987

A stable rat islet cell line expressing the glucagon [9007-92-5] gene at AB high levels was cloned for the study of posttranslational processing of proglucagon [55963-74-1]. In contrast to the processing of proglucagon in the pancreas, in which glucagon is liberated, in the cell line the intestinal pattern of peptides consisting of glicentin [71567-77-6]

≥2 forms of glucagon-like peptide (GLP) [GLP-I-(1-37) [87805-34-3] and GLP-I-(7-37) [106612-94-6]], GLP-II [93927-39-0], an intervening peptide (IP-II), [106612-95-7] and an amidated form of IP-II [106612-96-8] was found. No individually processed glucagon peptide was detected. GLP-I-(1-37), GLP-I-(7-37), GLP-II, IP-II, and IP-II amide coeluted with their resp. synthetic peptide stds. on gel filtration and ion exchange chromatog. The existence of a single glucagon gene in the rat genome and indistinguishable glucagon mRNAs in pancreas and intestine indicates that the neoplastic transformation that occurred in these islet cells is associated with a phenotypic switch in the differential posttranslational processing of proglucagon to a pattern that mimics that found in the intestinal cells. A common progenitor for the intestinal and islet cells is suggested.

TT 93927-39-0

> RL: FORM (Formation, nonpreparative) (formation of, by pancreatic tumor, proglucagon processing in relation

L10 ANSWER 35 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:79500 CAPLUS

DOCUMENT NUMBER: 106:79500

TITLE: Mutations in the guinea pig preproglucagon gene are restricted to a specific portion of the prohormone

sequence

AUTHOR(S): Seino, S.; Welsh, M.; Bell, G. I.; Chan, S. J.;

Steiner, D. F.

CORPORATE SOURCE: Dep. Biochem. Mol. Biol., Univ. Chicago, Chicago, IL,

USA

FEBS Letters (1986), 203(1), 25-30 SOURCE:

CODEN: FEBLAL; ISSN: 0014-5793

DOCUMENT TYPE: Journal LANGUAGE: English

Entered STN: 21 Mar 1987 ED

AΒ A cDNA clone encoding guinea pig preproglucagon [75432-63-2] was isolated from a pancreatic cDNA library. The predicted amino acid sequence of proglucagon is highly conserved in all regions, in comparison to other mammals, except for the C-terminal portion of the 29-residue glucagon region, in which 5 amino acid substitutions have occurred. These changes may serve to offset the reduced receptor-binding potency of the highly mutated insulin in this New World species.

104364-59-2 IT

AUTHOR (S):

LANGUAGE:

RL: PRP (Properties) (amino acid sequence of)

L10 ANSWER 36 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN

1985:18708 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 102:18708

TITLE: Glucagon gene sequence. Four of six exons encode

> separate functional domains of rat preproglucagon Heinrich, Gerhard; Gros, Philippe; Habener, Joel F. Howard Hughes Med. Inst., Harvard Med. Sch., Boston,

CORPORATE SOURCE: MA, 02114, USA

Journal of Biological Chemistry (1984), 259(22), SOURCE:

14082-7

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE:

Journal English

ED Entered STN: 26 Jan 1985

AB Glucagon [9007-92-5], a peptide of 29 amino acids that is produced and secreted by the pancreas, is a regulator of carbohydrate and protein metabolism The nucleotide sequence of a mRNA of 1300 nucleotides that encodes rat preproglucagon [75432-63-2], a polyprotein precursor of glucagon, has

Harle 10/042746 Page 41

been determined The polyprotein contains the sequences of glucagon and 2 glucagon-like peptides arranged in tandem and separated by intervening peptides. The structure of the gene encoding rat preproglucagon was examined The unique transcriptional unit of the gene spans 10 kilobase pairs and consists of 6 exons and 5 introns. Four of the 6 exons encode distinct functional domains of the preproglucagon. The signal sequence, glucagon, and 2 glucagon-like sequences arranged in tandem are each encoded by a sep. exon. A promoter sequence, TATAAA, is located 26 base pairs upstream from the mRNA cap site, and 2 polyadenylation signals (AATAAA) are present in the 3'-untranslated region of the encoded mRNA. The 3'-flanking region of the gene contains repetitive sequence DNA.

IT 93927-39-0

RL: PRP (Properties)

(amino acid sequence of)

L10 ANSWER 37 OF 55 USPATFULL on STN

ACCESSION NUMBER: 2004:255594 USPATFULL

TITLE: Injection device with rotatable dose setting INVENTOR(S): Miller, Thomas Dedenroth, Kobenhavn, DENMARK

Hansen, Steffen, Hillerod, DENMARK

Sorensen, Niels Christian Egholm, Hillerod, DENMARK

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: NOVO NORDISK PHARMACEUTICALS, INC, 100 COLLEGE ROAD

WEST, PRINCETON, NJ, 08540

NUMBER OF CLAIMS: 28 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Page(s)

LINE COUNT: 1065

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

An injection device comprising a housing and a dose setting mechanism including a dose setting element. Contrary to prior art injection devices, the dose setting element can only be set at a few different dose settings. This is established by forming the dose setting element as a rotatable dish concealed within the housing and having a number of projections projecting outside the boundaries of the housing through a slot in the housing. A dose is set by activating a projection which in addition provides the user with a tactile guidance. Usually one projection is provided for one dose setting limiting the number of doses to be set to the number of projections.

IT 741700-41-4

(injection devices housing cartridge containing glucagon-like peptides in solution with dose-setting mechanism)

L10 ANSWER 38 OF 55 USPATFULL on STN

ACCESSION NUMBER: 2004:165928 USPATFULL

TITLE: GLP-2 derivatives

INVENTOR(S): Knudsen, Liselotte Bjerre, Valby, DENMARK

Huusfeldt, Per Olaf, Kobenhavn K, DENMARK Nielsen, Per Franklin, Varlose, DENMARK Kaarsholm, Niels C., Vanlose, DENMARK Olsen, Helle Birk, Allerod, DENMARK Thim, Lars, Gentofte, DENMARK Bjorn, Soren Erik, Lyngby, DENMARK

	NUMBER KIND DATE			
DAMENIM THEODNAMES	VO 000440744			
PATENT INFORMATION: APPLICATION INFO.:	US 2004127418 A1 20040701 US 2003-730215 A1 20031208 (10)			
RELATED APPLN. INFO.:	US 2003-730215 A1 20031208 (10) Continuation of Ser. No. US 2001-908534, filed on 18			
	Jul 2001, PENDING Continuation of Ser. No. US			
	1999-258187, filed on 25 Feb 1999, ABANDONED			
	Continuation-in-part of Ser. No. US 1997-922200, filed			
	on 2 Sep 1997, ABANDONED			
	NUMBER DATE			
	NUMBER DATE			
PRIORITY INFORMATION:	DK 1996-931 19960830			
	DK 1996-1259 19961108			
	DK 1998-271 19980227			
	IIS 1997-35905P 19970124 (60)			
	US 1997-36226P 19970125 (60)			
	US 1998-85789P 19980518 (60)			
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	NOVO NORDISK PHARMACEUTICALS, INC, 100 COLLEGE ROAD			
NUMBER OF CLAIMS:	WEST, PRINCETON, NY, 08540			
EXEMPLARY CLAIM:	1			
LINE COUNT:	1136			
	LE FOR THIS PATENT.			
	, pharmaceutical compositions comprising GLP-2 analogs,			
and methods of t	reating diseases and disorders comprising administering			
such analogs or	compositions are provided.			
	2-05-1P 204402-09-5P			
(preparation of	lipophilic derivs. of hGLP-2)			
L10 ANSWER 39 OF 55 U	SPATFULL on STN			
ACCESSION NUMBER:	2004:159406 USPATFULL			
TITLE:	GLP-2 compounds, formulations, and uses thereof			
INVENTOR (S):	Thim, Lars, Gentofte, DENMARK			
, ,	Bang, Susanne, Bagsvaerd, DENMARK			
	Schlein, Morten, Copenhagen S., DENMARK			
	Kaarsholm, Niels Christian, Vanloese, DENMARK			
	Engelund, Dorthe Kot, Holte, DENMARK			
	Nielsen, Anette Sams, Bagsvaerd, DENMARK			
	Johansen, Nils Langeland, Copenhagen OE., DENMARK			
	Madsen, Kjeld, Vaerlose, DENMARK			
	Zundel, Magali, Soeborg, DENMARK			
	Thygesen, Peter, Copenhagen OE., DENMARK			
	NUMBER KIND DATE			
PATENT INFORMATION:	US 2004122210 A1 20040624			
APPLICATION INFO.:	US 2003-685368 A1 20031014 (10)			
	NUMBER DATE			
PRIORITY INFORMATION:	DV 2002 1574 20021014			
FATORITI INFORMATION:	DK 2002-1574 20021014 DK 2002-1780 20021119			
	DK 2002-1778 20021119 US 2002-434562P 20021219 (60)			

US 2002-434562P 20021219 (60)

US 2002-434560P 20021219 (60) US 2002-420581P 20021023 (60) US 2002-426273P 20021114 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Reza Green, Esq., Novo Nordisk Pharmaceuticals, Inc.,

100 College Road West, Princeton, NJ, 08540

NUMBER OF CLAIMS: 77 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 12 Drawing Page(s)

LINE COUNT: 7463

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention relates to novel human glucagon-like peptide-2 (GLP-2) peptides and human glucagon-like peptide-2 derivatives which have a protracted profile of action as well as polynucleotide constructs encoding such peptides, vectors and host cells comprising and expressing the polynucleotide, pharmaceutical compositions, uses and methods of treatment.

IT 223460-79-5, 1-33-Glucagon-like peptide II (human)

(amino acid sequence; synthesis and production of glucagon-like peptide-2 (GLP-2) derivs. and, formulations and therapeutic uses thereof)

IT 682841-36-7P 683751-57-7P

(synthesis and production of glucagon-like peptide-2 (GLP-2) derivs. and, formulations and therapeutic uses thereof)

L10 ANSWER 40 OF 55 USPATFULL on STN

ACCESSION NUMBER: 2003:294792 USPATFULL

TITLE: Methods of enhancing functioning of the large intestine

INVENTOR(S): Drucker, Daniel J., Ontario, CANADA

PATENT ASSIGNEE(S): NPS ALLELIX CORPORATION (non-U.S. corporation)

RELATED APPLN. INFO.: Division of Ser. No. US 2000-692238, filed on 20 Oct

2000, GRANTED, Pat. No. US 6586399 Continuation of Ser. No. US 1998-149831, filed on 8 Sep 1998, GRANTED, Pat. No. US 6297214 Continuation-in-part of Ser. No. US

1997-850664, filed on 2 May 1997, ABANDONED

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Stephen A. Bent, Foley & Lardner, Washington Harbour,

3000 K Street, N.W., Suite 500, Washington, DC,

20007-5143

NUMBER OF CLAIMS: 14 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 903

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention relates to glucagon-related peptides and their use for the prevention or treatment of disorders involving the large intestine. In particular, it has now been demonstrated that GLP-2 and peptidic agonists of GLP-2 can cause proliferation of the tissue of large intestine. Thus, the invention provides methods of proliferating the large intestine in a subject in need thereof. Further, the methods of the invention are useful to treat or prevent inflammatory conditions of the large intestine, including inflammatory bowel diseases.

IT 195262-56-7 197664-29-2

(GLP-2 and its analogs for the treatment or prevention of inflammatory conditions of the large intestine)

L10 ANSWER 41 OF 55 USPATFULL on STN

ACCESSION NUMBER: 2003:288615 USPATFULL

TITLE: Method for identifying a pharmacologically active

substance

INVENTOR(S): Schleuning, Wolf-Dieter, Berlin, GERMANY, FEDERAL

REPUBLIC OF

Schulz, Torsten, Berlin, GERMANY, FEDERAL REPUBLIC OF

NUMBER DATE

PRIORITY INFORMATION: DE 2002-10208187 20020220

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,

WASHINGTON, DC, 20037

NUMBER OF CLAIMS: 25 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 19 Drawing Page(s)

LINE COUNT: 1339

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Method for identifying a novel biologically active substance, which is based on defining the targeted property of the substance and selecting a reference organism, naturally displaying the targeted property.

IT 583899-33-6

(unclaimed sequence; identification of drug targets for rational drug design using model systems and comparative genomics).

L10 ANSWER 42 OF 55 USPATFULL on STN

ACCESSION NUMBER: 2003:283328 USPATFULL

TITLE:

Derivatives of GLP-1 analogs

INVENTOR(S):

Knudsen, Liselotte Bjerre, Valby, DENMARK Huusfeldt, Per Olaf, Kobenhavn K, DENMARK Nielsen, Per Franklin, Vaerlose, DENMARK Kaarsholm, Niels C., Vanlose, DENMARK Olsen, Helle Birk, Allerod, DENMARK Bjorn, Soren Erik, Lyngby, DENMARK

Pedersen, Freddy Zimmerdahl, Vaerlose, DENMARK

Madsen, Kjeld, Vaerlose, DENMARK

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: US 2003199672 A1 20031023 US 2002-285079 A1 20020819 (10)

Continuation of Ser. No. US 1999-398111, filed on 16

Sep 1999, GRANTED, Pat. No. US 6458924

Continuation-in-part of Ser. No. US 1999-265141, filed

on 8 Mar 1999, GRANTED, Pat. No. US 6384016

Continuation-in-part of Ser. No. US 1999-258750, filed

on 26 Feb 1999, GRANTED, Pat. No. US 6268343

Continuation-in-part of Ser. No. US 1998-38432, filed on 11 Mar 1998, ABANDONED Continuation-in-part of Ser. No. US 1997-918810, filed on 26 Aug 1997, ABANDONED Continuation-in-part of Ser. No. WO 1997-DK340, filed

on 22 Aug 1997, UNKNOWN

NUMBER DATE

Harle 10/042746 Page 45

PRIORITY INFORMATION: DK 1996-931 19960830 DK 1996-1259 19961108 DK 1996-1470 19961220 DK 1998-263 19980227 DK 1998-264 19980227 DK 1998-268 19980227 EP 1998-610006 19980313 DK 1998-507 19980408 DK 1998-272 19980227 DK 1998-274 19980227 DK 1998-508 19980408 DK 1998-509 19980408 US 1997-35904P 19970124 (60) US 1997-36226P 19970125 (60) US 1997-36255P 19970124 (60) DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT: Reza Green, Esq., Novo Nordisk of North America, Inc., LEGAL REPRESENTATIVE: Suite 6400, 405 Lexington Avenue, New York, NY, 10174-6401 NUMBER OF CLAIMS: 238 EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 1 Drawing Page(s) LINE COUNT: 19138 CAS INDEXING IS AVAILABLE FOR THIS PATENT. AB The present invention relates to a pharmaceutical composition comprising a GLP-1 derivative having a lipophilic substituent; and a surfactant. 204401-96-7P 204402-05-1P 204402-09-5P IT (preparation of lipophilic derivs. of hGLP-2) L10 ANSWER 43 OF 55 USPATFULL on STN ACCESSION NUMBER: 2003:232502 USPATFULL TITLE: Glucagon-like peptide-2 analogs INVENTOR(S): Drucker, Daniel J., Toronto, CANADA Crivici, Anna E., San Diego, CA, UNITED STATES Sumner Smith, Martin, Bolton, CANADA PATENT ASSIGNEE(S): NPS Allelix Corporation (non-U.S. corporation) KIND NUMBER DATE -----PATENT INFORMATION: A1 20030828 US 2003162703 APPLICATION INFO.: US 2002-293941 A1 20021114 (10) RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-764070, filed on 19 Jan 2001, ABANDONED Division of Ser. No. US 1997-835538, filed on 8 Apr 1997, GRANTED, Pat. No. US 6184201 Continuation-in-part of Ser. No. US 1996-631273, filed on 12 Apr 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-632533, filed

on 12 Apr 1996, PENDING Continuation-in-part of Ser. No. US 1995-422540, filed on 14 Apr 1995, GRANTED, Pat. No. US 5990077

Utility DOCUMENT TYPE: APPLICATION FILE SEGMENT:

FOLEY AND LARDNER, SUITE 500, 3000 K STREET NW, LEGAL REPRESENTATIVE:

WASHINGTON, DC, 20007

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1 LINE COUNT: 1255

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Analogs of glucagon-like peptide 2, a product of glucagon gene expression, have been identified as intestinal tissue growth factors. Their formulation as pharmaceutical, and therapeutic use in treating

disorders of the small bowel, are described. IT 93927-39-0P, Glucagon-related peptide II (rat) 184378-22-1P 184378-24-3P 184378-25-4P 184378-26-5P

(preparation of glucagon-like peptide-2 analogs as as gastrointestinal tissue growth factors)

L10 ANSWER 44 OF 55 USPATFULL on STN

2003:226288 USPATFULL ACCESSION NUMBER:

Glucagon-like peptide-2 and its therapeutic use TITLE:

Drucker, Daniel J., Toronto, CANADA INVENTOR(S):

1149336 Ontario Inc. (non-U.S. corporation) PATENT ASSIGNEE(S):

KIND DATE NUMBER -----US 2003158101 A1 20030821 US 2002-42746 A1 20021120 PATENT INFORMATION: APPLICATION INFO.:

(10)

Continuation of Ser. No. US 1996-632533, filed on 12 RELATED APPLN. INFO.: Apr 1996, PENDING Continuation-in-part of Ser. No. US 1995-422540, filed on 14 Apr 1995, GRANTED, Pat. No. US

> 5990077 Utility

DOCUMENT TYPE: APPLICATION FILE SEGMENT:

Stephen A. Bent, Foley & Lardner, Washington Harbour, LEGAL REPRESENTATIVE:

Suite 500, 3000 K Street, N.W., Washington, DC,

20007-5143

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 10 Drawing Page(s)

1269 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Glucagon-like peptide 2, a product of glucagon gene expression, and AB analogs of glucagon-like peptide 2, have been identified as gastrointestinal tissue growth factors. Their effects on the growth of small bowel and pancreatic islets are described. Their formulation as a pharmaceutical, and their therapeutic use in treating disorders of the bowel, are described.

IT 93927-39-0P, Glucagon-related peptide II (rat)

184378-22-1P 184378-24-3P 184378-25-4P

184378-26-5P

(preparation of glucagon-like peptide-2 analogs as as gastrointestinal tissue growth factors)

L10 ANSWER 45 OF 55 USPATFULL on STN

2003:176402 USPATFULL ACCESSION NUMBER:

Methods of enhancing functioning of the large intestine TITLE:

Drucker, Daniel J., Ontario, CANADA INVENTOR(S):

1149336 Ontario, Inc., Toronto, CANADA (non-U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE ______ US 6586399 B1 20030701 PATENT INFORMATION: US 2000-692238 APPLICATION INFO.: 20001020 (9)

Continuation of Ser. No. US 1998-149831, filed on 8 Sep RELATED APPLN. INFO.:

1998, now patented, Pat. No. US 6297214

Continuation-in-part of Ser. No. US 1997-850664, filed

on 2 May 1997, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

Low, Christopher S. F. PRIMARY EXAMINER:

Kam, Chih-Min ASSISTANT EXAMINER:

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LEGAL REPRESENTATIVE: Foley & Lardner

NUMBER OF CLAIMS: 16 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 8 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 899

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention relates to glucagon-related peptides and their use for the prevention or treatment of disorders involving the large intestine. In particular, it has now been demonstrated that GLP-2 and peptidic agonists of GLP-2 can cause proliferation of the tissue of large intestine. Thus, the invention provides methods of proliferating the large intestine in a subject in need thereof. Further, the methods of the invention are useful to treat or prevent inflammatory conditions of the large intestine, including inflammatory bowel diseases.

195262-56-7 197664-29-2 IT

(GLP-2 and its analogs for the treatment or prevention of inflammatory conditions of the large intestine)

L10 ANSWER 46 OF 55 USPATFULL on STN

2002:43566 USPATFULL ACCESSION NUMBER:

GLP-2 derivatives TITLE:

Knudsen, Liselotte Bjerre, Valby, DENMARK INVENTOR(S):

Huusfeldt, Per Olaf, Kobenhavn K, DENMARK Nielsen, Per Franklin, Vaerlose, DENMARK Kaarsholm, Niels C., Vanlose, DENMARK Olsen, Helle Birk, Allerod, DENMARK

Thim, Lars, Gentofte, DENMARK Bjorn, Soren Erik, Lyngby, DENMARK

KIND DATE NUMBER __________ US 2002025933 A1 20020228 US 2001-908534 A1 20010718 (9) PATENT INFORMATION: APPLICATION INFO.:

Continuation of Ser. No. US 1999-258187, filed on 25 RELATED APPLN. INFO.:

Feb 1999, ABANDONED Continuation-in-part of Ser. No. US

1997-922200, filed on 2 Sep 1997, ABANDONED

NUMBER DATE ______ DK 1996-931 19960830 DK 1996-1259 19961108 PRIORITY INFORMATION: DK 1996-1259 DK 1998-271 DK 1998-271 19980227 US 1997-35905P 19970124 (60) US 1997-36226P 19970125 (60) US 1998-85789P 19980518 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

Reza Green, Esq., Novo Nordisk of North America, Inc., LEGAL REPRESENTATIVE:

Suite 6400, 405 Lexington Avenue, New York, NY,

10174-6401

NUMBER OF CLAIMS: 57 EXEMPLARY CLAIM: 1 LINE COUNT: 877

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention relates to derivatives of hGLP-2 and analogues and/or fragments thereof having a lipophilic substituent have

interesting pharmacological properties, in particular they have a more

protracted profile of action than the parent peptides.

204401-96-7P 204402-05-1P 204402-09-5P IT

(preparation of lipophilic derivs. of hGLP-2)

L10 ANSWER 47 OF 55 USPATFULL on STN

Harle 10/042746 Page 48

ACCESSION NUMBER:

2002:102478 USPATFULL

TITLE:

Stabilized aqueous peptide solutions

INVENTOR(S): PATENT ASSIGNEE(S): Kaarsholm, Niels C., Vanl.o slashed.se, DENMARK Novo Nordisk A/S, Bagsvaerd, DENMARK (non-U.S.

corporation)

KIND DATE NUMBER

PATENT INFORMATION:

------US 6384016 B1 20020507 US 1999-265141 19990308

APPLICATION INFO.:

19990308 (9)

______ 19980313

PRIORITY INFORMATION:

EP 1998-610006

NUMBER

US 1998-78422P Utility

19980318 (60)

DOCUMENT TYPE: FILE SEGMENT:

GRANTED

PRIMARY EXAMINER:

Low, Christopher S. F.

ASSISTANT EXAMINER:

Mohamed, Abdel A.

LEGAL REPRESENTATIVE:

Green, Esq., Reza, Gregg, Esq., Valeta A.

· DATE

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

7 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT:

490

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB

Aqueous compositions comprising at least one peptide selected from glucagon, GLP-1, and analogues and derivatives thereof together with a stabilizing and solubilizing amount of at least one detergent, said detergent having at least 2 positive charges, at least 2 negative charges, or a combination of at least one positive charge and at least

one negative charge.

204401-96-7P 204402-05-1P 204402-09-5P TΤ

(preparation of lipophilic derivs. of hGLP-2)

L10 ANSWER 48 OF 55 USPATFULL on STN

ACCESSION NUMBER:

2001:218592 USPATFULL Extendin derivatives

INVENTOR(S):

TITLE:

Knudsen, Liselotte Bjerre, Valby, Denmark Huusfeldt, Per Olaf, Copenhagen K, Denmark Nielsen, Per Franklin, Vaerlose, Denmark

Madsen, Kjeld, Vaerlose, Denmark

NUMBER KIND DATE _____ ____

PATENT INFORMATION:

US 2001047084 A1 20011129 US 2001-886311 A1 20010621 (9)

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 1999-312177, filed on 14

May 1999, ABANDONED Continuation of Ser. No. WO

1999-DK86, filed on 24 Feb 1999, UNKNOWN

NUMBER DATE

PRIORITY INFORMATION:

_____ DK 1998-274 19980227

US 1998-84357P

19980505 (60)

DOCUMENT TYPE:

Utility APPLICATION

FILE SEGMENT: LEGAL REPRESENTATIVE:

Reza Green, Esq., Novo Nordisk of North America, Inc.,

Suite 6400, 405 Lexington Avenue, New York, NY,

10174-6401

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

91 1

LINE COUNT:

2488

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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a derivative of GLP-1 (7-C), wherein C is 35 or 36 which derivative has just one lipophilic substituent which is attached to the C-terminal amino acid residue.

IT 204401-96-7P 204402-05-1P 204402-09-5P

(preparation of lipophilic derivs. of hGLP-2)

L10 ANSWER 49 OF 55 USPATFULL on STN

ACCESSION NUMBER: 2001:155833 USPATFULL

TITLE: Glucagon-like peptide-2 analogs
INVENTOR(S): Drucker, Daniel J., Toronto, Canada

Crivici, Anna E., San Diego, CA, United States

Sumner-Smith, Martin, Bolton, Canada

RELATED APPLN. INFO.: Division of Ser. No. US 1997-835538, filed on 8 Apr

1997, GRANTED, Pat. No. US 6184201 Continuation-in-part

of Ser. No. US 1996-631273, filed on 12 Apr 1996, ABANDONED Continuation-in-part of Ser. No. US

1996-632533, filed on 12 Apr 1996, PENDING

Continuation-in-part of Ser. No. US 1995-422540, filed

on 14 Apr 1995, GRANTED, Pat. No. US 5990077

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Bernhard D. Saxe, FOLEY & LARDNER, Washington Harbour,

3000 K Street, N.W. Suite 500, Washington, DC,

20007-5109

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1 LINE COUNT: 1265

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Analogs of glucagon-like peptide 2, a product of glucagon gene expression, have been identified as intestinal tissue growth factors. Their formulation as pharmaceutical, and therapeutic use in treating disorders of the small bowel, are described.

IT 93927-39-0P, Glucagon-related peptide II (rat)

184378-22-1P 184378-24-3P 184378-25-4P

184378-26-5P

PATENT ASSIGNEE(S):

(preparation of glucagon-like peptide-2 analogs as as gastrointestinal tissue growth factors)

L10 ANSWER 50 OF 55 USPATFULL on STN

ACCESSION NUMBER: 2001:168091 USPATFULL

TITLE: Photochemical singlet oxygen generations having

enhanced singlet oxygen yields

INVENTOR(S): Willey, Alan David, Cincinnati, OH, United States

Harriman, Anthony, Bischheim, France Jeffreys, Brian, Grimbergen, Belgium

Ingram, David William, Woluwe Saint-Lambergt, Belgium Case Western Reserve University, Cleveland, OH, United

States (U.S. corporation)

19990723 PCT 102(e) date

NUMBER DATE

PRIORITY INFORMATION: US 1997-35904P 19970124 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Hardee, John

LEGAL REPRESENTATIVE: Fay Sharpe Fagan Minnich & McKee, LLP

NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
LINE COUNT: 1743

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to photochemical singlet oxygen generators useful as bleaching agents or anti-microbial agents in laundry detergent compositions or in hard surface cleaning compositions. The singlet oxygen generators described herein have enhanced singlet oxygen generation due to aromatic moieties teed to the molecules, said aromatic moieties absorbing ultra violet radiation then re-emitting the radiation as fluorescence at a wavelength absorbable by the singlet oxygen producing photosensitizer unit. The increase in the number of photons having an absorbable wavelength provides an increase in the production of singlet oxygen.

IT 204401-96-7P 204402-05-1P 204402-09-5P (preparation of lipophilic derivs. of hGLP-2)

L10 ANSWER 51 OF 55 USPATFULL on STN

ACCESSION NUMBER: 1999:151180 USPATFULL

TITLE: Glucagon-like peptide-2 and its therapeutic use

INVENTOR(S): Drucker, Daniel J., Toronto, Canada

PATENT ASSIGNEE(S): 1149336 Ontario Inc., Toronto, Canada (non-U.S.

corporation)

PATENT INFORMATION: US 5990077 19991123
APPLICATION INFO.: US 1995-422540 19950414 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Huff, Sheela
LEGAL REPRESENTATIVE: Pennie & Edmonds LLP

NUMBER OF CLAIMS: 80
EXEMPLARY CLAIM: 1
LINE COUNT: 1128

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Glucagon-like peptide 2, a product of glucagon gene expression, has been identified as a gastrointestinal tissue growth factor. Its effects on the growth of small intestine and on pancreatic islets are described. Its formulation as a pharmaceutical, and its therapeutic use in treating bowel tissue disorders and in treating diabetes, are described.

IT 93927-39-0P, Glucagon-related peptide II (rat)

184378-22-1P 184378-24-3P 184378-25-4P

184378-26-5P

(preparation of glucagon-like peptide-2 analogs as as gastrointestinal tissue growth factors)

L10 ANSWER 52 OF 55 USPATFULL on STN

ACCESSION NUMBER: 1999:110291 USPATFULL

TITLE: Compositions and methods for enhancing intestinal

function

INVENTOR(S): Drucker, Daniel J., Toronto, Canada

PATENT ASSIGNEE(S): 1149336 Ontario Inc., Toronto, Canada (non-U.S.

Harle 10/042746 Page 51

corporation)

NUMBER KIND DATE ______ PATENT INFORMATION: US 5952301 19990914 US 1996-763177 19961210 (8) APPLICATION INFO.: Utility DOCUMENT TYPE: FILE SEGMENT: Granted PRIMARY EXAMINER: PRIMARY EXAMINER: Tsang, Cecilia J.
ASSISTANT EXAMINER: Delacroix-Muirheid, C.

LEGAL REPRESENTATIVE: Pennie & Edmonds LLP NUMBER OF CLAIMS:

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)

863 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

GLP-2 stimulates the growth of both small intestine and large intestine tissue when administered in conjunction with other peptide hormones. The invention provides pharmaceutical compositions of GLP-2 with at least one other peptide hormone, methods of enhancing the growth of both small and large intestine tissue and of ameliorating nutritional or gastrointestinal disorders by increasing serum levels of GLP-2 and at least one other peptide hormone, and kits for performing the methods of the invention.

93927-39-0, Glucagon-related peptide II (rat) IT (compns. containing glucagon-related peptides in combination with other agents for enhancing intestinal function)

L10 ANSWER 53 OF 55 USPATFULL on STN

ACCESSION NUMBER: 1999:67248 USPATFULL

Use of a pharmaceutical composition comprising an TITLE:

appetite-suppressing peptide

Thim, Lars, Gentofte, Denmark INVENTOR(S):

Wulff, Birgitte Schjellerup, Virum, Denmark Judge, Martin Edward, Copehagen, Denmark Madsen, Ole Dragsbaek, Soborg, Denmark Holst, Jens Juul, Hellerup, Denmark

Novo Nordisk Als, Bagsv.ae butted.rd, Denmark (non-U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE -----US 5912229 US 1997-808825 19990615 PATENT INFORMATION: 19970228 (8) APPLICATION INFO.:

NUMBER DATE ______ DK 1996-230 19960301 DK 1996-231 19960301 PRIORITY INFORMATION:

US 1996-15403P 19960315 (60)

DOCUMENT TYPE: Utility. FILE SEGMENT: Granted

PRIMARY EXAMINER: Tsang, Cecilia J. ASSISTANT EXAMINER: Gupta, Anish

Zelson, Esq., Steve T., Lambiris, Esq., Elias J. LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT: 877

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention relates to appetite-suppressing peptides or an appetite-suppressing peptide-containing fraction for the treatment of Harle 10/042746

obesity or type II diabetes.

IT 195262-55-6 195262-56-7

(pharmaceutical composition comprising appetite-suppressing peptides)

L10 ANSWER 54 OF 55 USPATFULL on STN

ACCESSION NUMBER: 1998:138861 USPATFULL

TITLE: Glucagon-like peptide-2 and its therapeutic use

INVENTOR(S): Drucker, Daniel J., Toronto, Canada

PATENT ASSIGNEE(S): 1149336 Ontario Inc., Toronto, Canada (non-U.S.

corporation)

KIND DATE NUMBER -----PATENT INFORMATION: US 5834428 19981110 US 1996-669790 APPLICATION INFO.:

19960628 (8)

Continuation of Ser. No. US 1996-632533, filed on 12 RELATED APPLN. INFO.: Apr 1996 which is a continuation-in-part of Ser. No. US

1995-422540, filed on 14 Apr 1995

DOCUMENT TYPE: Utility FILE SEGMENT: Granted Huff, Sheela PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Pennie & Edmonds LLP

NUMBER OF CLAIMS: 16 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 28 Drawing Figure(s); 14 Drawing Page(s)

LINE COUNT: 1349

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Glucagon-like peptide 2, a product of glucagon gene expression, and analogs of glucagon-like peptide 2, have been identified as gastrointestinal tissue growth factors. Their effects on the growth of small bowel and pancreatic islets are described. Their formulation as a ... pharmaceutical, and their therapeutic use in treating disorders of the

bowel, are described.

IT 93927-39-0P, Glucagon-related peptide II (rat) 184378-22-1P 184378-24-3P 184378-25-4P

184378-26-5P

(preparation of glucagon-like peptide-2 analogs as as gastrointestinal tissue growth factors)

L10 ANSWER 55 OF 55 USPATFULL on STN

ACCESSION NUMBER: 1998:92002 USPATFULL

TITLE: Glucagon-like peptide-2 analogs INVENTOR(S): Drucker, Daniel J., Toronto, Canada

Crivici, Anna E., Toronto, Canada Sumner-Smith, Martin, Bolton, Canada

PATENT ASSIGNEE(S): Allelix Biopharmaceutical Inc., Mississauga, Canada

(non-U.S. corporation)

1149336 Ontario Inc., Toronto, Canada (non-U.S.

corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5789379 19980804 APPLICATION INFO.: US 1996-669791 19960628 (8)

Continuation of Ser. No. US 1996-631273, filed on 12 RELATED APPLN. INFO.:

> Apr 1996, now abandoned Ser. No. Ser. No. US 1996-632533, filed on 12 Apr 1996 And Ser. No. US

1995-422540, filed on 14 Apr 1995

DOCUMENT TYPE: Utility FILE SEGMENT: Granted Huff, Sheela PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Pennie & Edmonds LLP Harle 10/042746 Page 53

23 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

LINE COUNT: 1191

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Analogs of glucagon-like peptide 2, a product of glucagon gene AB expression, have been identified as intestinal tissue growth factors. Their formulation as pharmaceutical, and therapeutic use in treating

disorders of the small bowel, are described.

93927-39-0P, Glucagon-related peptide II (rat) 184378-22-1P 184378-24-3P 184378-25-4P

184378-26-5P

(preparation of glucagon-like peptide-2 analogs as as gastrointestinal tissue growth factors)

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